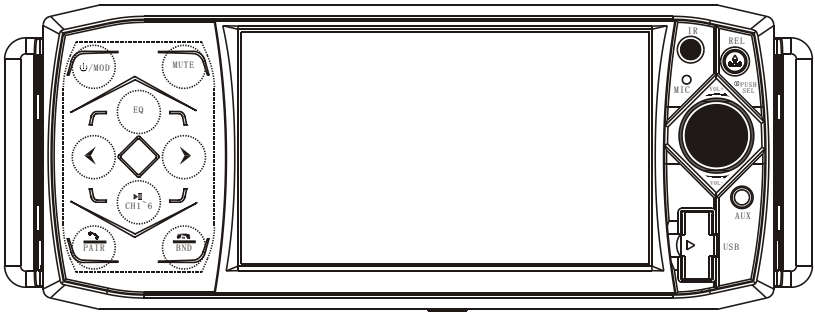
PREMIER®

INSTRUCTION MANUAL

Car Audio/Video System

SCR-4710TVD



DEAR CUSTOMER

In order to achieve the best performance of your product, please read this instruction manual carefully before using, and keep it for future reference. If you need extra support, please write to info@premiermundo.com

PREMIER CUSTOMER SERVICE

Venezuela:	0800 ELECTRIC (353-2874)
Panama:	300-5185
Website	www.premiermundo.com
E-mail:	servicioalcliente@premiermundo.com

NOTE
This unit may be submitted to changes in specifications, characteristics and/or operation without prior notice to the user, in order to continue improving and developing its technology.

Precaution

Class 1 laser product

This car multi-media player is a class 1 laser product. However This car multi-media player uses a visible/invisible laser beam which could cause . Hazardous radiation exposure if directed.

Be sure to operate the car multi-media player correctly as instructed. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Content

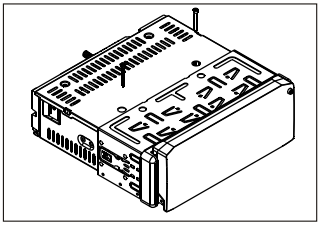
Premier Customer Service..... 1
Precaution..... 2
Content..... 3

Installation steps..... 4
General knowledge about remote control..... 8
Locations and Names of controls on main unit..... 9
Locations and Names of controls on remote control..... 10

Same functions in any work source mode..... 11
Radio operation..... 14
TV operation..... 16
BT operation..... 17
Disc/USB/card operation..... 20
1. Loading or unloading a disc, USB or card..... 20
1.1 Loading a disc, USB or card..... 20
1.2 Unloading a disc, USB or card..... 21
2. Popping up Function Icons-board..... 21
2.1 Function Icons-board of Digital Video/VCD/MPEG4/Image /MP3/WMA..... 21
2.2 CD interface..... 22
3. Function of controls on the touch screen/main unit/remote control..... 23
* Region Code..... 32
* Parental Control..... 33
AV IN operation..... 34
Rear View Camera..... 35

Troubleshooting..... 36
Specification..... 37

INSTALLATION STEPS

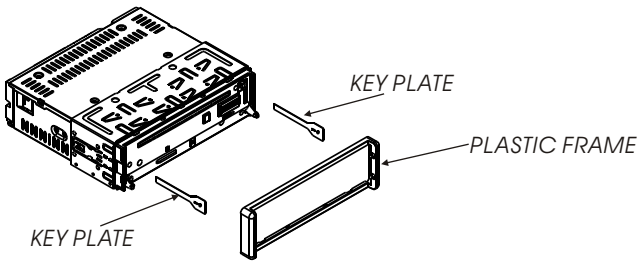


1. Remove the 2 deck screws as right;

2. Mounting Slide Bracket Housing ;

1) Remove the PLASTIC FRAME from the chassis ;

2) Insert the 2 KEY PLATES into the grooves at the both sides of the chassis till they click; then pulling the two KEY PLATES to remove the chassis from the Slide Bracket Housing ;



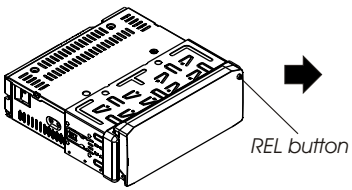
If you want to take CHASSIS out of the SLIDE BRACKET HOUSING , first remove the PLASTIC FRAME of the both sides away, then insert the two KEY PLATES into left and right sides of chassis as above illustration.

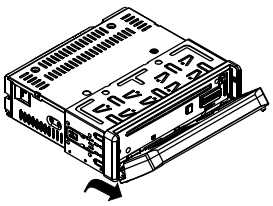
3) Mount the Sliding Bracket Housing in the position of car multi-media system and bend some tabs of Sliding Bracket Housing to fix it.(see Installation Diagram)

3. Connecting all wires:

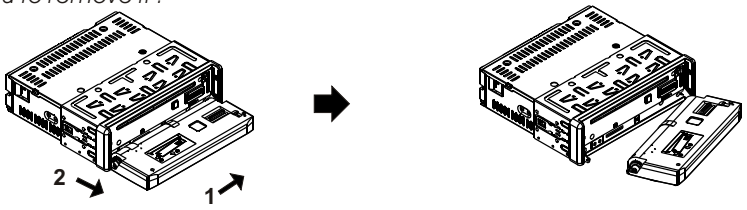
1) Remove control panel from chassis as follows:

A. Press the REL button to flip down control panel .

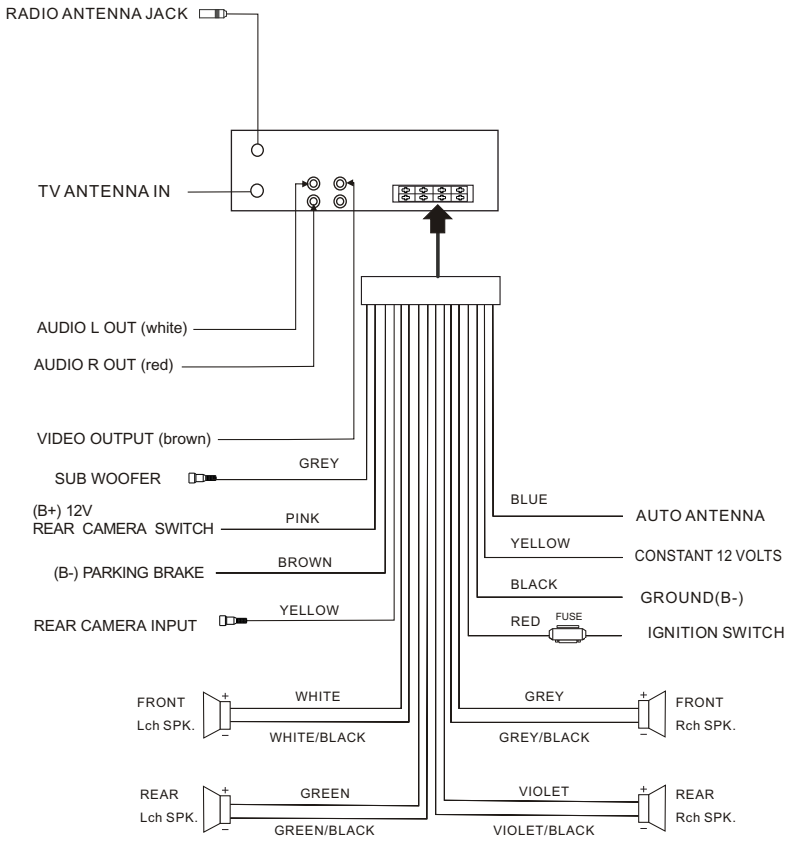




B. Hold the left end of the control panel to slide rightwards a little and pull it towards you to remove it .



2) Connecting all wires according of the wiring diagram as follows:



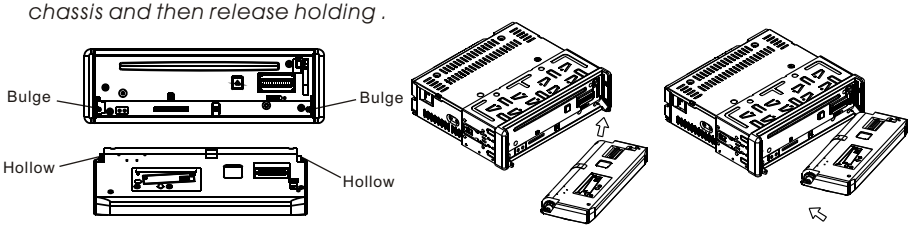
WIRING DIAGRAM

NOTE:

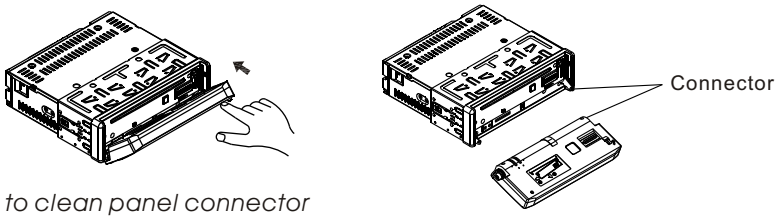
1. Must use 4 ohms impedance of speakers.
2. After connecting parking Line, video on screen of control panel will be displayed only after applying parking brake.
3. Before finishing wiring, do not attach control panel onto chassis.

3) Attach control panel onto chassis.

A. Make the right hollow of control panel aim at the right bulge of chassis, then push and hold control panel rightwards; at one time, move the left end of control panel towards chassis to make the left hollow of control panel aim at the left bulge of chassis and then release holding .



B. Flip control panel up till hearing a click sound to attach onto chassis.



** How to clean panel connector*

Frequent detachment will deteriorate panel connectors. To minimize deterioration, periodically wipe the panel connectors with a clean/soft/dry cloth .

4) Testing it for making sure that it can work properly .

4. Installing main unit according to installation diagram:

1) Insert the chassis of the car multi-media system into the sliding metal housing.

2) Use the metal strap to fix the rear part of chassis.

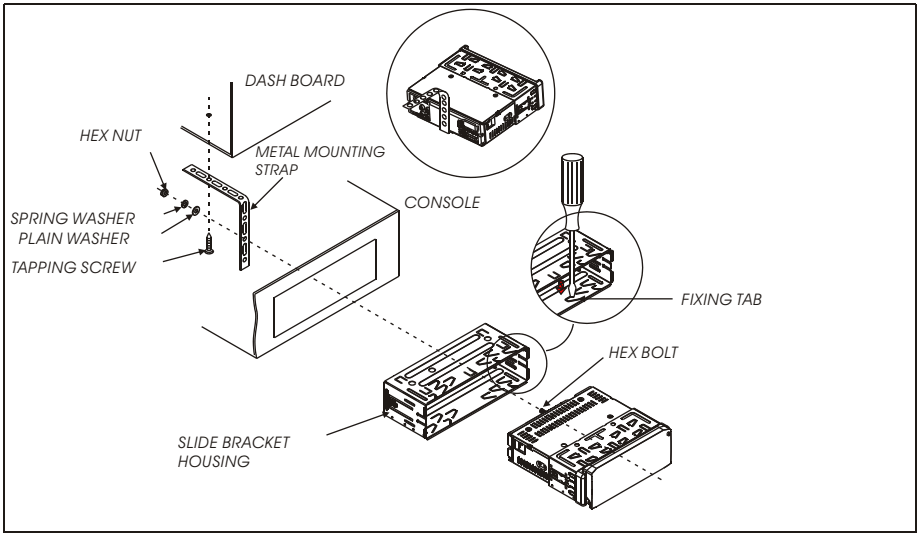
** Uninstalling main unit:*

1) Remove metal strap from main unit;

2) Remove plastic trim frame from main unit;

3) Insert a key plate into left and right side of main unit and draw main unit out of sliding metal housing.

Installation diagram

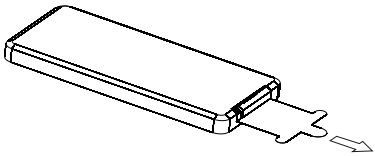


GENERAL KNOWLEDGE ABOUT REMOTE CONTROL

1. Removing insulating sheet

If using remote control for the first time, you can see an insulating sheet at the bottom side of remote control as right.

you must remove the insulating sheet as right. Otherwise, the remote control is disabled.



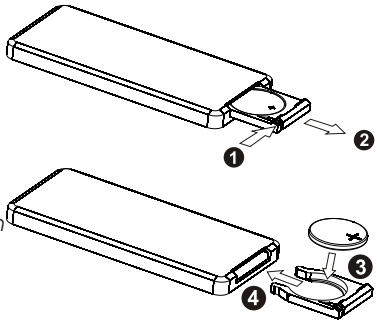
2. Replace lithium cell

If the electric energy of lithium cell is weak, replace it.

1) Press and hold the movable block as direction indicated by arrow 1 as right, at one time pull cell holder out of remote control as direction indicated by arrow 2 as right.

2) Replace the old cell by a new one with (+) polarity side upward as right.

3) Insert the cell holder into remote control again as right.



3. Note about using remote control

1) You should face the emitting window of remote control towards the sensor window of the unit.

2) Operation angle for front panel: About 30 degree

3) The distance between the emitting window of remote control and the sensor window of the unit : < 5M .

4. Warning for lithium cells of remote control

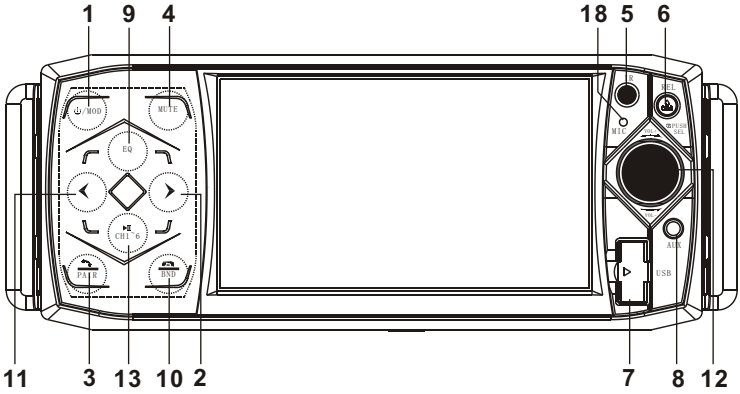
1) Cell leakage may cause damage to remote control.

2) Do not throw cells into fire, it may cause explosion.

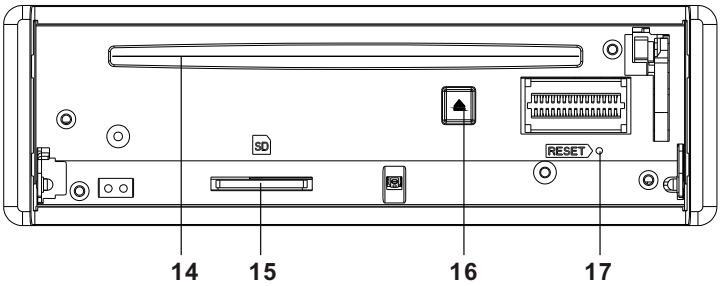
.

3.To avoid risk of accident, keep cells out of reach of children.

Locations and names of controls on main unit



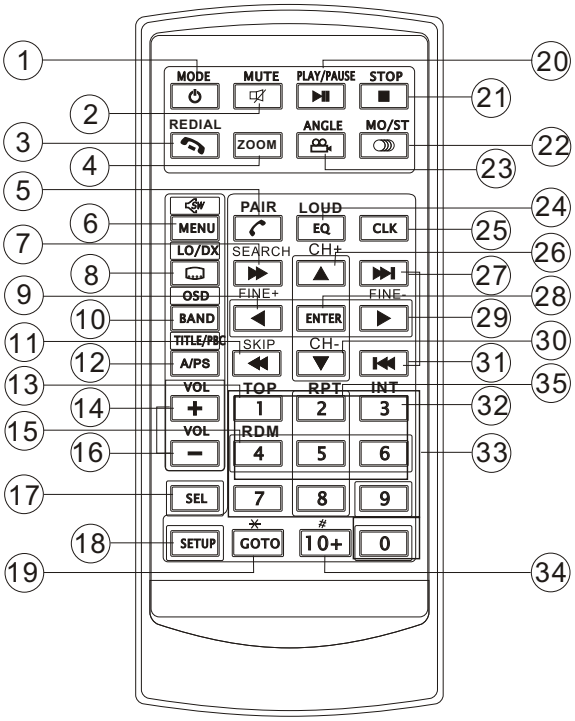
Control Panel



Front Facet of Chassis after removing Control Panel

1. POWER/MODE TOUCH BUTTON
2. > TOUCH BUTTON
3. PAIR/ TOUCH BUTTON
4. MUTE TOUCH BUTTON
5. IR SENSOR WINDOW
6. REL BUTTON
7. USB PORT AND COVER
8. AUX IN JACK
9. EQ TOUCH BUTTON
10. BAND/ TOUCH BUTTON
11. < TOUCH BUTTON
12. SEL BUTTON AND VOL KNOB
13. >|| OR CH1~6 TOUCH BUTTON
14. DISC SLOT
15. CARD SLOT
16. EJECT BUTTON
17. RESET BUTTON
18. MICROPHONE

Locations and Names of Controls on Remote Control



1. POWER or MODE BUTTON
2. MUTE BUTTON
3. HANG UP or REDIAL BUTTON
4. ZOOM BUTTON
5. CALL or PAIR BUTTON
6. MENU or SW BUTTON
7. >> or SEARCH BUTTON
8. SUBTITLE or LO/DX BUTTON
9. < or FINE+ BUTTON
10. BAND or OSD BUTTON
11. << or SKIP BUTTON
12. A/PS or TITLE/PBC BUTTON
13. TOP BUTTON
14. VOL+ BUTTON
15. RDM BUTTON
16. VOL- BUTTON
17. SEL BUTTON
18. SETUP BUTTON
19. GOTO or * BUTTON
20. >|| BUTTON
21. STOP BUTTON
22. AUDIO or MO/ST BUTTON
23. ANGLE BUTTON
24. EQ or LOUD BUTTON
25. CLK BUTTON
26. ^ or CH+ BUTTON
27. >>| BUTTON
28. ENTER BUTTON
29. > or FINE- BUTTON
30. V or CH- BUTTON
31. |<< BUTTON
32. INT BUTTON
33. NUMBER(0~9) BUTTON
34. 10+ or # BUTTON
35. RPT BUTTON

Same functions in any work source mode

1. POWER button and icon
   In power off mode, pressing POWER button on remote control or touching POWER button on control panel powers on main unit.

   In power on mode, long pressing POWER button on remote control or long touching POWER button on control panel or touching icon on source menu(see Source menu fig.on next page) powers off main unit.

2. VOL knob & VOL+/VOL- buttons
   To adjust volume level, rotate VOL knob on control panel or press or hold VOL+ or VOL- button on remote control.

3. SEL button
   To switch between BASS,TREBLE,BALANCE, FADE,COLOR,BRIGHTNESS,CONTRAST, TINT and VOLUME, briefly and repeatedly press SEL button.

   After switching on the desired mode above, rotate VOL knob or press VOL+/VOL- buttons to set it.

   To switch between BT, LOUD, SWF, EQ, DX/LOCAL(in radio mode), STEREO/MONO(in radio mode), TIME 12H/24H, CLOCK, BUZZ,EUR/USA FREQ,ANIMATION, BG and TV SYSTEM, long press SEL button to switch on BT, then briefly and repeatedly press SEL button.

   After switching on the desired mode above, rotate VOL knob or press VOL+/VOL- buttons to set it.

4. MUTE button
   To switch MUTE mode on or off, press MUTE button on remote control or touch MUTE button on control panel.

5. EQ button
   To select a desired preset EQ mode from JAZZ, CLASSIC, POP, ROCK and USER, press EQ button on remote control or touch EQ button on control panel continuously.

6. To switch LOUD mode
   To switch on or off LOUD mode, long press EQ button on remote control .

7. SW button
   To switch on or off SUBWOOFER mode, long press SW button on remote control.

8. CLK button
   Press CLK button on remote control to display clock time .

9. MODE button and source menu
   To switch work source between RADIO, DISC(after inserting a disc), USB(after inserting a USB storage), CARD(after inserting a card) , TV, AV IN and BT MUSIC, press MODE button on remote control or touch MODE button on control panel continuously.

   During disc(non-CD)/USB/card playback, touch screen to pop up Function Icons-board and then touch the icon in the Function Icons-board to enter the source menu(refer to Disc/USB/Card Operation) .

   During AV IN or TV playback, touch screen to pop up AUX or TV interface and then touch icon to enter the source menu(refer to AV IN Operation and TV Operation).

   In radio, BT MUSIC or CD mode, touch icon to enter the source menu(refer to Radio Operation, BT Operation and Disc/USB/Card Operation).

The source menu displays as follows:

Source Menu

In source menu, touch one icon of DISC, RADIO, TV, BT MUSIC, AUX, USB and SD Card to enter one work source of DISC, RADIO, TV, BT MUSIC, AV IN, USB and SD Card.

10. SETUP icon

1) SETTING SYSTEM

In source menu, touch SETUP icon to display SYSTEM page of SETUP menu as follows:

System page of SETUP menu

In the SYSTEM page of SETUP menu, repeatedly touch the or icon to highlight one setting item of BRIGHTNESS, CONTRAST, COLOR, TINT, ANIMATION, WALLPAPER, TV SYSTEM and BT. After highlighting a desired setting item, touch the or icon to set it.

2) SETTING SOUND

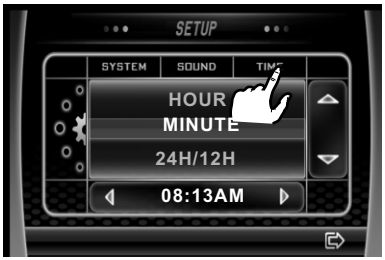
In SETUP menu, touch SOUND icon to display SOUND page of SETUP menu as follows:

Sound page of SETUP menu

In the SOUND page of SETUP menu, repeatedly touch the or icon to highlight one setting item of TREBLE, BASS, BALANCE, FADE, SUBWOOFER, LOUDNESS, RADIO LOC/DX(entering Source Menu in radio mode), RADIO STEREO(entering Source Menu in radio mode) and BUZZER ON/OFF. After highlighting a desired setting item, touch the or icon to set it.

3) SETTING TIME

In SETUP menu, touch TIME icon to display TIME page of SETUP menu as follows:



Time page of SETUP menu

In the TIME page of SETUP menu, repeatedly touch the or icon to highlight one setting item of HOUR, MINUTE and 24H/12H. After highlighting a desired setting item, touch the or icon to set it.

After finishing setting, touch icon to return back to normal playback.

11.REL button

Press REL button on control panel to flip down the control panel, then hold the left part of the control panel to push it rightwards and pull it to you to remove it.

12.RESET button

When LCD displays wrongly or some buttons are not available or sound is distorted, press REL button to flip down the control panel, then remove it as above, then use the sharp end of a pointed object to press RESET button to reset the program to zero.

Radio Operation

1. To enter RADIO mode(MODE button or RADIO icon)
   When you use MODE button or source menu (tapping RADIO icon) to enter RADIO mode, it will display radio interface as follows:

* Some icons on radio interface correspond with the buttons on remote control or control panel as follows:

SWF icon = SW button(remote control)(long pressing)
LOUD icon = EQ button(remote control)(long pressing)
icon = MUTE button
and icons = VOL- and VOL+ buttons = VOL knob
EQ icon = EQ button
: To enter source menu.
icon : press it to pop up BT PHONE interface

2. To switch between bands (BAND)
   The BAND icon or button can switch between bands of FM1, FM2, FM3, AM1 and AM2, and the word FM1,FM2,FM3,AM1 or AM2 will be displayed on screen.

3. To search for a station (< and > icons or v and ^ or < and > buttons)

1) Long touching < or > icon or long pressing v or ^ button on remote control or long touching < or > button on control panel can automatically search down or up for an available station beginning from the current frequency.

2) Briefly touching < or > icon or briefly pressing v or ^ button on remote control or briefly touching < or > button on control panel can manually search down or up for a your desired station beginning from the current frequency.

4. To preset and scan all memory stations (APS icon or A/PS button)

1) When long touching APS icon or long pressing A/PS button on remote control , the radio searches from the lowest frequency and checks the signal strength level until 1 cycle search is finished, and the 6 strongest stations are preset to corresponding preset number memory bank for the current band.

   The presetting function can be implemented in selected FM or AM band. (It can presets 3x6 stations for FM and 2x6 stations for AM in all)

2) When briefly touching APS icon or briefly pressing A/PS button, the radio scans for each preset station in FM or AM band from NO.1 bank, each preset station broadcasts for 5 seconds. After finishing a circle of scanning, it will resume broadcasting the station in NO.1 bank.

   NOTE: In FM band, FM1,FM2 and FM3 are preset and scaned as one band at a time; In AM band, AM1 and AM2 are preset and scaned as one band at a time.

5. To preset and listen to a memory station(1～6 icons or 1～6 buttons or CH1-6 button)

1) Long touching one of 6 number(1～6) icons or long pressing one of 6 number(1～6) buttons can preset the current broadcasting station of the current band in the number memory bank; .
2) Briefly touching one of 6 number(1～6) icons or briefly pressing one of 6 number(1～6) buttons can listen to the memory station in the current band preset in the number memory bank.

* CH1-6 button:

1)To preset a station in a memory bank with CH1-6 button, first select a desired band; then touch CH1-6 button to select a desired memory bank; and then search for a desired station; finally long touch CH1-6 button to store the station in the memory bank.

2)To listen to a preset station with CH1-6 button, first switch on a desired band, then continuously touch CH1-6 button highlight and listen to it.

6. To switch on between stereo and mono mode (MO/ST button)
Press MO/ST button on remote control to select STEREO or MONO mode for FM band.

When the STEREO mode is activated, it can get better audio effect; when the MONO mode is activated, it can get clearer audio signal.

7. To switch on between local and distance mode (LO/DX button)
Press LO/DX button to turn LOC on to tune for local stations with weak interference;
Press LO/DX button to turn DX on to tune for distance stations with stronger signal.

TV operation

1. To enter TV mode (MODE button or TV icon)
   When you use MODE button or source menu(tapping TV icon) to enter TV mode, first it displays TV interface, and broadcastes program after a while.

   During TV broadcasting, touching any place on touch screen can pop up TV interface as follows:

SWF icon = SW button(long pressing)

LOUD icon = EQ button(remote control)
(long pressing)
icon = MUTE button

and icons = VOL- and VOL+ buttons
= VOL knob
EQ icon = EQ button

icon : press it to pop up BT PHONE interface

icon: To enter source menu.

2. To search and save TV channels(SCAN icon or SEARCH button)
   Touching SCAN icon or pressing SEARCH button can search for all available channels from the lowest frequency to highest frequency. After searching for a circle, it will stop searching and broadcast the available channel with the lowest frequency and all the available channels from the lowest frequency to the highest frequency will be saved.

3. To select a desired channel with an available station (CH- and CH+ icon or CH- and CH+ or < and > buttons)
   After searching, touching CH- or CH+ icon or pressing CH- or CH+ button on remote control or touching < or > button on control panel can select the channels with available stations.

4. To select a desired channel (0~9)
   Use the 0~9 icons or the 0~9 buttons to directly select the channel.

* the 10+ button is not available.

5. To fine tune the current channel(FINE- and FINE+)
   Touching FINE- or FINE+ icon or pressing FINE- or FINE+ button to fine fune for better signal.

6. To add or delete a channel(SKIP)
   After searching channels automatically, the CH+/CH- buttons on remote control and > / < buttons on control panel and CH+/CH- icons can select only the channels with available signal.

1) Add Channels
   Use the number buttons to select a channel, then press SKIP button or touch SKIP icon, the screen will display SAVE, the channel will be available for the CH+/CH- & >/< buttons and CH+ / CH- icons.

2) Skip Available Channels
   Use the CH+/CH- or > / < buttons or CH+/ CH- icons to select a channel you want to skip for the CH+/CH- & >/< buttons and CH+/CH- icons, then press SKIP button or touch SKIP icon, the screen will display SKIP, the channel will be skipped for the CH+/CH- & > / < buttons and CH+ / CH- icons.

BT operation

1. Pairing and Connecting

Prior to using the BT device named BC_HF_V03 as a handfree system for a BT-enabled mobile phone for the first time, you must pair and connect them as follows:

* Prior to pairing and connecting, when displaying No Video interface of radio, CD, AV IN or BT music, BT logo flashes in the touch screen.

* During using the BT device named BC_HF_V03 as a handfree system for a BT-enabled mobile phone, place the BT-enabled mobile phone 3 meters from the Car A/V System;

1) Long press PAIR button on remote control or long touch PAIR button on control panel to display a blue frame to frame the the flashing BT logo;

2). Switch on the BT mode of your mobile phone; then select the item to find a BT device and enter it; When it finds the BT device of the car A/V system, the name BC_HF_V03 will be displayed, select it and enter it; then it will show an interface that asks you to input a password, input 8888 and enter it; then it will pair and connect with the BT device BC_HF_V03 of the car A/V system, Confirm it, then the frame of the BT logo will be filled by blue color and they are light all the time.

* When finishing pairing and connecting, the audio of the mobile phone transfers to the car audio system whenever a call is made or received or the mobile phone plays music.

2. BT PHONE

1) Make a call

(1) Dial with mobile phone directly;

(2)Dial with the controls on BT PHONE interface or on remote control or on control panel

a. Long touch button on control panel or long press button on remote control or touch icon to pop up BT PHONE interface as follows:

: Same as MUTE button.

& : Same as VOL+ and VOL- or VOL knob.

b. Use the number icons or buttons to input your desired phone number;

* When inputting a wrong digit, use icon or < button to delete it.

c. After finishing inputting, touch icon or touch button on control panel or press button on remote control to dial out.

2) Redial last dialed phone number

Touch icon or long touch button on control panel or long press button on remote control to dial out the last dialed phone number.

3) Answer a call

During ringing, the incoming telephone number displays in the rectangle frame of the BT PHONE interface. If you want to receive it, touch icon or touch button on control panel or press button on remote control; if you want to reject it, touch icon or touch button on control panel or press button on remote control.

4) End phone talking

When you want to end phone talking, touch icon or use or button.

5) Switch audio between car A/V system and mobile phone

During phone talking using the BT handfree system of the car A/V system, if you want to change the phone audio to your mobile phone, touch icon or touch button on control panel or press button on remote control.

During phone talking using the mobile phone, if you want to change the phone audio to the the car A/V system again, use or button.

6) Adjust volume level during phone talking

During phone talking, use and icon or VOL knob or VOL+ and VOL- buttons to adjust volume level; use icon or MUTE button to mute sound.

* *** / # icons and buttons**

they perform as * / # buttons on mobile phone.

3. BT MUSIC

1) Touching BT MUSIC on source menu or pressing MODE button can pop up BT MUSIC interface as follows:

and icons = VOL- and VOL+ buttons = VOL knob

icon = MUTE button

EQ icon = EQ button

icon : Popping up BT PHONE interface.

icon = button

icon = button

and icons = and button

icon: To enter source menu.

SWF icon : To switch SUBWOOFER mode on or off.

LOUD icon : To switch LOUD mode on or off.

2) When using your mobile phone with BT function to play audio/video, if it is paired and connected with the BT device of the car A/V system, the audio of the mobile phone will change into the car A/V system.

   The BT device of the car A/V system support A2DP, if your mobile phone with BT function support A2DP, the car A/V system can output stereo audio from your mobile phone.

3) The BT device of the car A/V system supports AVRCP, so these icons on the BT MUSIC interface except BT Music and their corresponding buttons on control panel or on remote control are available for audio/video playback of your mobile phone during playback. But no fast forward/backward functions for / icon and / buttons, and the function of resume playback after pausing or stopping is available only for some mobile phone.

* If you don't want to use the BT function of the car A/V system , long press SEL button to display BT, then use VOL knob or VOL+ and VOL- buttons to switch BT off .

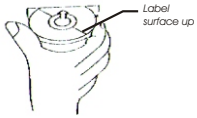
Disc/USB/Card Operation

1. Loading or unloading a disc, USB or card

1.1 Loading a disc, USB or card

To play files in a disc, press REL button on control panel to flip down the control panel, then insert a disc with label surface up into disc slot, then flip up the control panel and attach onto chassis till hear a click sound, finally it will automatically play.

* CAUTION OF USING DISC



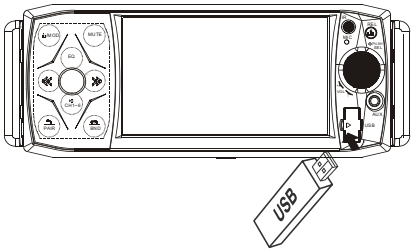
1) Handle a disc by its edge, do not touch the surface of play side.

2) Before inserting disc, wipe the disc outwards from the disc center with a clean, soft, dry, lint-free cloth. Do not use solvents /thinner such as petrol/benzine, cleaner.

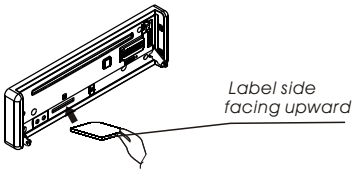
3) After taking a disc out of disc slot, put the disc inside disc case to keep it clean.

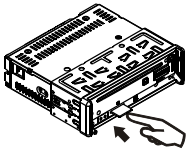
4) Do not stick paper or tape on the disc surface of play side. If there is glue (or analog) on the disc surface, must wipe it up before using.

To play files in a USB, firstly open USB port cover, then insert USB storage into USB port, and then it will play files in the USB automatically.



To play files in a card, firstly press REL button to flip down control panel, then hold the left part of the control panel to push it rightwards and pull it to you to remove it, and then insert the card into card slot till hear a click sound, and then attach the control panel onto chassis again, by now it will play files in the card automatically .





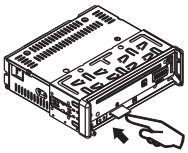
Press in till heard a "CLICK"

1.2 Unloading a disc, USB or card

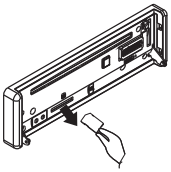
To unload the disc in disc slot, use STOP button to stop playback and then press REL button to flip down the control panel, then press EJECT button to eject disc, then remove it.

To pull away the USB storage, use STOP button to stop playback, then you can remove the USB storage.

To unload the card in card slot, use STOP button to stop playback, then press REL button to flip down the control panel and then hold the left part of it to push rightwards and pull it to you to remove it, and then you can push the card for release it and then pull it out of the card slot.



Press in till heard a "CLICK"



Remove the memory card

* During MP3/WMA playback, the information of file, folder, title, artist and album will be scrolling on LCD display. As long as the current playing MP3/WMA music contains relevant ID3 tag information in version 1.0/2.0 format, the 3 items underlined above will be scrolling on LCD display; otherwise, they will not

* The supported max. Memory size of USB: 32GB
The supported max. Memory size of card: SD-16GB; MMC-2GB

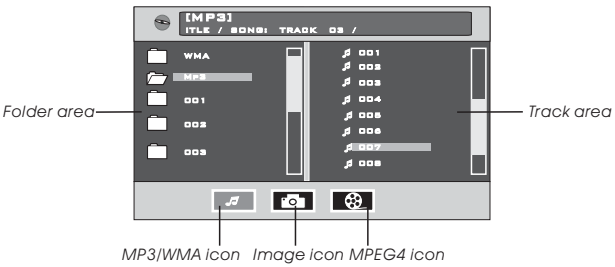
* There is ESP function for all formats of discs.

2. Popping up Function Icons-board

2.1 Function Icons-board of Digital Video/VCD/MPEG4/Image/MP3/WMA

During Digital Video/VCD/MPEG4/Image playback, tapping any place on touch screen can pop up Function Icons-board 1 as next page, then tap icon to pop up Function Icons-board 2 as next page.

During MP3/WMA playback, tapping any place except folder area, track area and MP3/WMA&Image&MPEG4 icons can pop up Function Icons-board 1 same as one of Digital Video/VCD/MPEG4/Image, then tap icon to pop up Function Icons-board 2 same as one of Digital Video/VCD/MPEG4/Image.



The Function Icons-boards display as follows:

Function Icons-board 1

Function Icons-board 2

* *Some icons on the Function Icons-boards descript as follows:*

: Same as MUTE button.

: Same as VOL- button or rotating VOL knob with anti-clock wise.

: Same as VOL+ button or rotating VOL knob with clock wise.

: Poping up source Menu.

: Poping up Function Icons-board 2.

: Same as EQ button.

CLK *: Same as CLK button.*

LOUD *: Same as long pressing EQ button.*

SWF *: Same as SW button.*

: Poping up Function Icons-board 1.

: To redial the last dialed number.

: To pop up BT PHONE interface.

2.2 CD interface

During CD playback, the CD interface displays as follows:

* *Some icons on the CD interface descript as follows:*

: Poping up source Menu.

EQ : Same as EQ button.

: Same as VOL- button or rotating VOL knob with anti-clock wise.

: Same as MUTE button.

: Same as VOL+ button or rotating VOL knob with clock wise.

SWF : Same as SW button.

LOUD : Same as long pressing EQ button.

Icon : press it to pop up BT PHONE interface

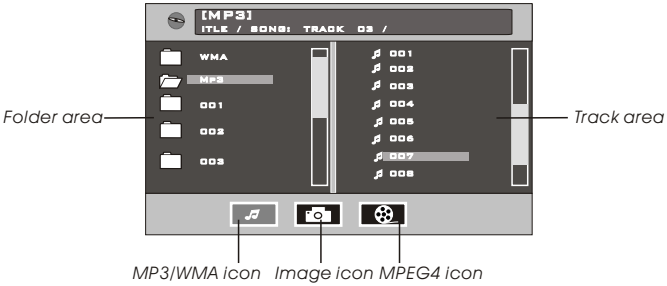
3. *Function of controls on the touch screen/main unit/remote control*

1. ⏯ *icon or button*
   During playback, use it to pause playback; in pause mode, use it to resume playback.

   In CD interface, the icon displays as ▶/II .

2. ■ *icon or button*
   During Digital Video/VCD/CD/MP3/WMA playback, tapping or pressing it pre-stop or pause playback; in pre-stop or pause mode, use ⏯ *icon or button to resume playback.*
   During playback, tapping or pressing it twice to fully stop playback; in fully stop mode, use ⏯ *icon or button to start playback from the beginning of the media.*

   During MPEG4/image playback, use ■ *icon or button to display root menu as follows:*



   During MP3/WMA playback, the root menu above displays all the time.

   When displaying root menu, use < or > button to highlight the current chapter/track, the current folder or the kind icons.

* *If there are no track/chapter for a kind icon, you can't highlight the kind icon.*

   When highlighting a kind icon, press ENTER button to enter it.

   When highlighting the current folder, use v or ^ button to highlight other folders and then press ENTER button to enter it.

   When highlighting the current track, use v or ^ button to highlight other tracks and then press ENTER button to play it.

* *For image, after highlighting a track, press ENTER button to display only the highlighted track; press >|| button to display all tracks step by step from the highlighted track.*

* *Tapping folder icon, track icon or kind icon can execute the operation above.*

3. ⏮ / ⏭ *icons or buttons*
   During playback, continuously tapping ⏮ *or* ⏭ *icon or continuously pressing* ⏮ *or* ⏭ *button can fast backwards or forwards at the following multiple of normal*

speed: x2, x4, x8, x20, x1.

During fast playback, use ⏯ icon or button to resume normal playback.

For image files, no this function.

4. ⏮ / ⏭ *icons or buttons and < />buttons*
During playback, use one of them to play previous or next chapter/track.

During playback, continuously long touching < or > button on control panel can fast backwards or forwards at the following multiple of normal speed: x2, x4, x8, x20, x1.

5. *Number buttons*
During Digital Video/VCD(PBC OFF)/MPEG4/Image/CD/MP3/WMA playback, use number buttons to input chapter/track SN. , then it will play or display it.

To input a chapter/track with an SN that is equal to or bigger than 10, use the 10+ button to input the digit in tens place and then use 0-9 button to input the digit in units order.
I.e. 10+ ~ 1 = 11 (number 11 chapter/track will be displayed/played.)

During VCD playback, when it is in PBC ON mode, the number buttons are disabled.

6. MENU PBC *icon and MENU button*
During Digital Video playback, use MENU icon or button to display the current chapter list, then use direction buttons to select your desired chapter and then press ENTER button to play it.

For VCD, MENU button is disabled, track list is displayed on the monitor screen by pressing TITLE/PBC button or tapping MENU PBC *icon.*

For MPEG4/image, MENU button and MENU PBC *icon are disabled, root menu is displayed on the monitor screen by pressing* ■ *button or tapping* ■ *icon.*

For MP3/WMA, MENU button and MENU PBC *icon are disabled, root menu displays on the monitor screen all the time. Root menu of MP3/WMA is same as the one of MPEG4/image.*

For CD, MENU button is disabled.

7. MENU PBC *icon and TITLE/PBC button*
During Digital Video playback, use TITLE/PBC button to display title list; then use direction buttons to select your desired title and then press ENTER button to open the chapter list of the title; then use direction buttons to select your desired chapter and then press ENTER button to play.

* *You can also tap a desired title and then chapter to play.*

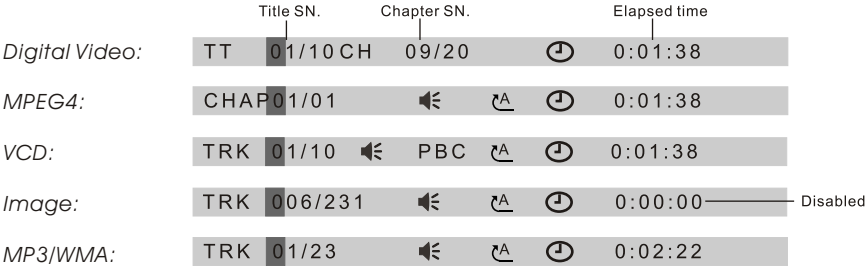
During VCD playback, use MENU PBC *icon or TITLE/PBC button to switch PBC mode on or off. When PBC mode is switched on, it will play from the beginning of media till it displays a track list. When a track list is displayed, use the number buttons to select your desired track to play.*

For MP3/WMA/MPEG4/image, MENU PBC *icon and TITLE/PBC button are disabled.*

For CD, the TITLE/PBC button is disabled.

8. GOTO *icon and GOTO button*
For Digital Video/MPEG4/VCD/image/MP3/WMA, you can use GOTO , , ,number and ENTER icons or GOTO, <, >, number and ENTER buttons to select a chapter /track or from a playback time point to play.

During playback, tap GOTO icon or press GOTO button to display changeable playback information bar as follows:



* *During playback, tapping GOTO icon can also display the Goto Function icons-board as follows:*

When displaying the changeable playback information bar, use / icon or < or > button to highlight title SN.(only for Digital Video) , chapter/track SN. or elapsed time of current chapter/track(disabled for image).

When highlighting title SN. or chapter/track SN. , use number icons or buttons to input desired SN. of title or chapter/track, then use ENTER icon or button to play the selected chapter/track.

When highlighting elapsed time of current chapter/track(disabled for image), use number icons or buttons to input desired playback time point for the playback time of the whole media for Digital Video/VCD and of the current chapter/track for MPEG4/MP3/WMA, then use ENTER icon or button to play from the playback time point.

For CD, GOTO button is disabled.

9. *icon or ZOOM button*
During Digital Video/VCD/MPEG4/image playback, use icon or ZOOM button to switch zoom mode between ZOOM 2, ZOOM 3, ZOOM 4, ZOOM ½, ZOOM 1/3, ZOOM 1/4 and ZOOM OFF.

When zooming in video/image, use direction buttons to move video/image upwards, downwards, rightwards or leftwards.

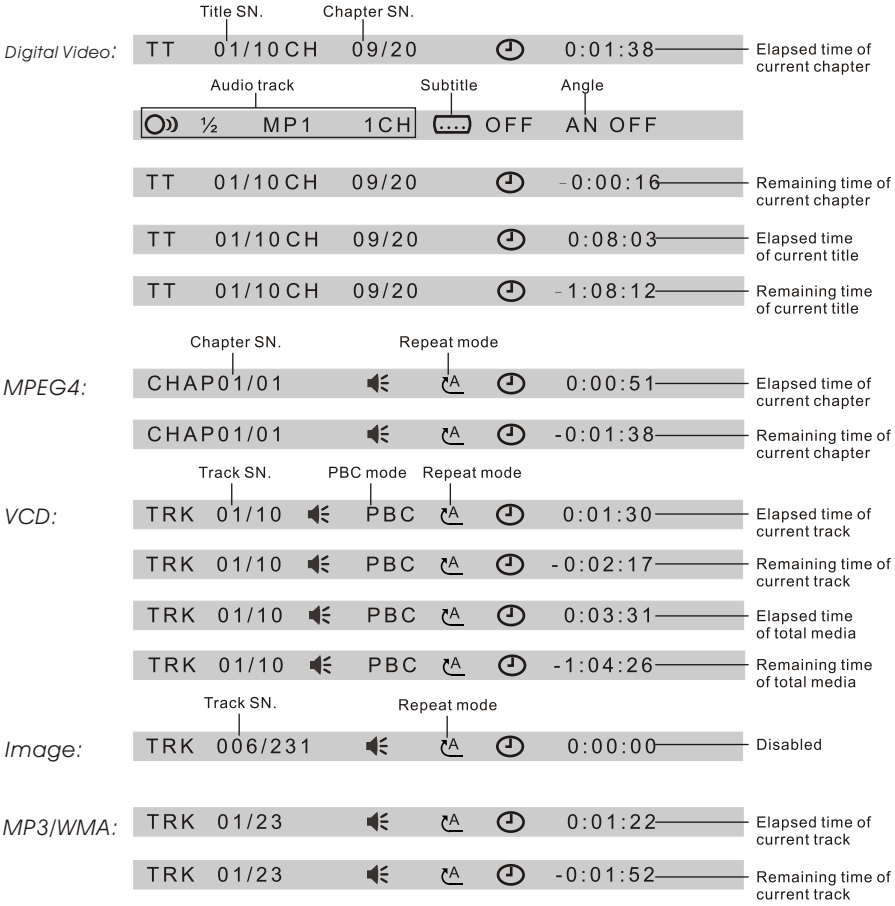
When not zooming in image, direction buttons can switch on 4 fixed rotated angles between >=90 deg cw, <=90 deg ccw, ^ =UP-DOWN and LEFT-RIGHT.

For MP3/WMA, icon and ZOOM button are disabled.

For CD, the ZOOM button is disabled.

10. OSD icon or button

During Digital Video/VCD/MPEG4/Image/MP3/WMA playback, use OSD icon or button to display playback information bar as bellows:



For CD , OSD button is disabled.

11. icon or REPEAT button

During Digital Video playback, use icon or REPEAT button to switch repeat mode between REP CHAPTER, REP TITLE, REP ALL and REP OFF.

During VCD(PBC OFF)/CD playback, use icon or REPEAT button to switch repeat mode between REP 1, REP ALL or REP OFF.

During MP3/WMA/MPEG4/image playback, use icon or REPEAT button to switch repeat mode between REP1,REP FOLDER(or DIR),REP ALL or REP OFF.

During VCD(PBC ON) playback, icon and REPEAT button are disabled.

12. icon or RDM button
During Digital Video/VCD(PBC OFF)/CD/MP3/WMA playback, tapping icon or long pressing RDM button switches random mode on or off.

For MPEG4/image/VCD(PBC ON) playback, icon and RDM button are disabled.

13. icon or INT button
During VCD/CD playback, tapping icon or long pressing INT button switches intro mode on or off.

For Digital Video/MP3/WMA/MPEG4/image, icon and INT button are disabled.

14. icon or button
During Digital Video playback, use icon or button to switch between audio tracks (depending on the current playing media).

During VCD/CD playback, use icon or button to switch audio channels between MONO L, MONO R, MIX MONO and STEREO.

For MPEG4/MP3/WMA/image, icon and button are disabled.

15. icon or button
During Digital Video playback, use icon or button to switch subtitle languages on or off(depending on the current playing media).

For VCD/MP3/WMA/MPEG4/image, icon and button are disabled.

For CD, the button is disabled.

16. ANGLE icon or button
During Digital Video playback, use ANGLE icon or press ANGLE button to play in different angles (depending on the current playing media).

For VCD/MP3/WMA/MPEG4/image, the ANGLE icon and button are disabled.

For CD, the ANGLE button is disabled.

17. icon or SETUP button
Use icon or SETUP button to enter Media Setup Menu for setting up all media parameter values.

Use icon or SETUP button to display Media Setup Menu(the default page is SYSTEM SETUP);

Media Setup Menu has 4 pages in all. When highlighting a page, tap the aim page icon or press > or < button to highlight another page;

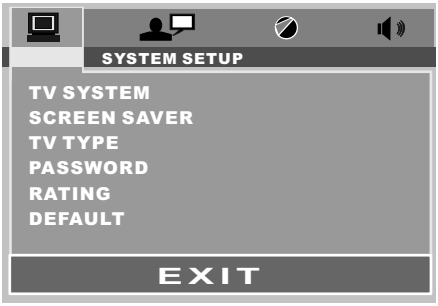
After selecting a page, tapping the aim item icon or press ^ or v button to highlight a setup item in the selected page;

After selecting a setup item, tapping the aim value; or press > button to enter the setup item, then press v or ^ button to select a desired value, finally press ENTER button to confirm it.

After finishing setting, tapping EXIT icon or press SETUP button to exit Media Setup Menu to resume normal playback.

Description of the 4 pages:

1) SYSTEM SETUP



TV SYSTEM
This setup item is for setting up video system in NTSC, PAL or AUTO .

If you set a non-matched video system for playing a video, the playing video will display white-black or flash.

SCREEN SAVER
This setup item is for switching screen saver on or off.

TV TYPE
This setup item is for setting up video display size.

(1) 4:3 PS: Choose this item when connecting a monitor with 4:3 screen. When playing video with 16:9 size, the left and right part of video will be cut out, and video will display in full screen.

(2) 4:3 LB: Choose this item when connecting a monitor with 4:3 screen. When playing video with 16:9 size, the top and bottom part of the monitor screen will be turned into a black square .

(3) 16:9: Choose this item when connecting a monitor with 16:9 wide screen.

PASSWORD
This setup item is for locking or unlocking parental control. The default mode is locked. The default unlocking password is 0000.

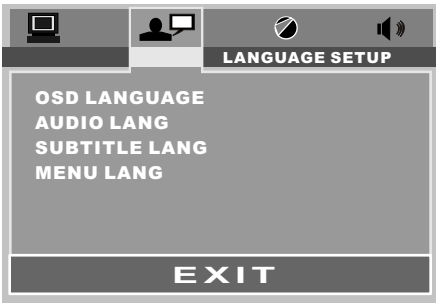
To lock or unlock parental control:
(1) Highlight PASSWORD item and then press > or ENTER button to enter it;
(2) Input password 0000;
(3) Press ENTER button to confirm, then it will unlock or lock parental control.

* *Remove the section of the PASSWORD of the User Manual to keep this sensitive information confidential.*

RATING
This setup item is for setting a new rating level of parental control.
(1) First highlight PASSWORD item to see whether parental control is locked or not. If it is in locked mode, unlock parental control referring to PASSWORD above.
(2) Highlight RATING item and press > or ENTER button to enter it, then use ^ or v button to select your desired rating level, and then press ENTER button to confirm.
(3) Highlight PASSWORD item again and then press > or ENTER button to enter it, then input password 0000, and press ENTER button to lock parental control again.

DEFAULT
This setup item is to change all parameter back to the default factory values.

2) LANGUAGE SETUP



OSD LANGUAGE
This item is for selecting the type of language displayed on the screen except for subtitle language and menu language(depending on current playing media).

AUDIO LANG
This item is for selecting the type of audio language(depending on current playing media).

SUBTITLE LANG
This item is for selecting the type of subtitle language(depending on current playing media).

MENU LANG
This item is for selecting the type of menu language(depending on current playing media).

3) VIDEO SETUP

BRIGHTNESS
For adjusting brightness of video output.

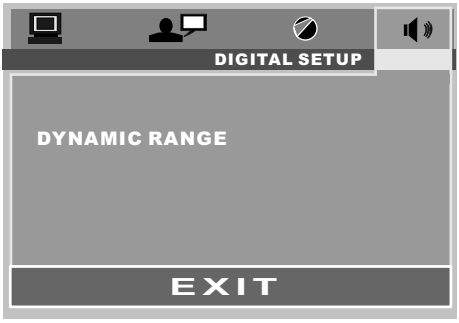
CONTRAST
For adjusting contrast of video output.

HUE
For adjusting hue of video output.

SATURATION
For adjusting saturation of video output.

SHARPNESS
For adjusting sharpness of video output.

4) DIGITAL SETUP



DYNAMIC RANGE
This item is for adjusting linear compression ratio. If you set it to FULL, Peak-to-Peak value of audio signal is minimum; if you set it to OFF, Peak-to -Peak value is maximum.

* *Region Code*

If you insert a disc into the disc slot and REGION ERROR is displayed, the car multi-media system can not play the disc. The reason is that the region codes of the car multi-media system and the used disc do not match each other.

Appendix: Region code of Digital Video

Motion Picture Association of America (MPAA) divided the world into 6 regions, and gave every region a region code for locking and unlocking Digital Video playback.

Basically, a coded Digital Video player can play only the discs if its region code is the same as the code of the Digital Video player. Otherwise, it cannot play the disc.

Please note that only the Digital Video discs and Digital Video players produced by the 8 biggest film-making companies of America impose this restriction. The Digital Video discs and Digital Video players not produced by the 8 biggest film-making companies of America are not restricted by the rule of region code. Generally, they are called Free Region Code or Full Region Code.

The problems caused by area code inconsistency has motivated the production of unlocked version Digital Video players and recodable Digital Video players .

Region codes and the countries or areas represented by region codes are as follows:

Region 1: America, Canada, East-Pacific Inlands;
Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
Region 3: South-east Asian countries include Taiwan, Hong Kong, South Korea, Thailand, indonesia, etc.;
Region 4: Australia, New Zealand, Central South America, South Pacific Inlands;
Region 5: Russia, Mongolia, Indian Peninsula, Middle Asia, East Europe, North Korea, North Africa, North-west Asia etc.;
Region 6: China mainland.

The 8 biggest film-making companies of America are as follows:

1. WarnerBros;
2. Columbia;
3. 20thCenturyFOX;
4. Paramount;
5. Universal;
6. UA(UnitedArtist);
7. MGM(MetroDogwynMayer);
8. WaltDisney

* *Parental Control*

Q: *After inserting a Digital Video disc into the disc slot, if a dialogue box pops up and asks you to input a password, what should you do ?*

A: *The playing disc is locked by a rating level of parental control. If the current rating level of parental control of the Digital Video player is lower than the one of current disc, you must input the correct password of parental control to unlock the parental control and enter a rating level equal to or higher than one of the current disc in order to play the disc.*

* *For factory preset password of parental control of Digital Video player, please see the part of Media Setup Menu.*

Appendix: Parental Control

Parental Control function of a Digital Video player can control playback of movie ratings on a disc. You can set the Digital Video player to be a certain rating level of parental control using the Media Setup Menu. If the rating level of parental control of a disc is higher than the one of the Digital Video player, the Digital Video player cannot play the disc.

The Digital Video movie can be designed so that the Digital Video player can play different versions of content of a particular movie according to the different rating levels of parental control. Depending on the Digital Video features, the scenes that are not suitable for children will be cleared or replaced by suitable scenes automatically.

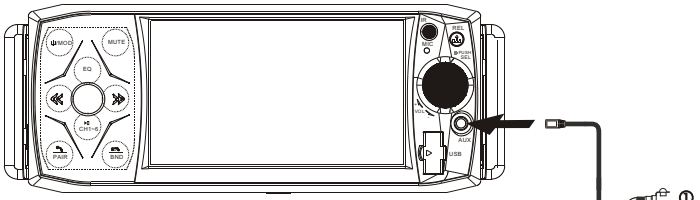
The rating levels of Parental Control are as follows:

1 Kid Safe
2 G
3 PG
4 PG 13
5 PG R
6 R
7 NC 17
8 Adult

AV IN operation

An external AV system can use the car AV system as monitor and amplifier.

1. *Use an AV cable to make the car AV system and the external AV system connected through the AUX IN jack on control panel of the car AV system and the AV Out jacks of the external AV system.*



2. *Play the external AV system, then use MODE button or Source Menu to enter AV IN mode for the car AV system. By now, the program played by the external AV system can be output through the monitor of the car AV system and the speakers connected to the car AV system.*

* *The icons on the AUX interface descript as follows:*

: Popping up Source Menu.

: Same as VOL+ button or rotating VOL knob with clock wise.

: Same as VOL- button or rotating VOL knob with anti-clock wise.

: press it to pop up BT PHONE interface

EQ : Same as EQ button.

: Same as MUTE button.

SWF : Same as long pressing SW button.

LOUD: Same as long pressing EQ button.

3. *In AV IN mode, you can use SEL, +, -, VOL, MUTE, EQ , SW and LOUD buttons or icons to adjust audio and video.*

REAR VIEW CAMERA

The car AV system can make you look at the actual status behind your car when you change the gear level to the back position.

1. *Use an video cable to make the car AV system and the rear view camera connected through the REAR CAMERA INPUT jack in the rear cabinet of the car AV system and the VIDEO OUTPUT jack of the rear view camera.*

   Make the REAR CAMERA SWITCH line in the rear cabinet of the car AV system connected to (B+)12V power supply.

2. *When you change the gear level to the back position, the screen of the car AV system will display the actual status behind your car.*

* *Note : the external monitor can not display the actual status behind your car.*

Troubleshooting

Please read the user manual carefully before using the car A/V system. If you have any difficulty using this car A/V system, refer to the troubleshooting guide. If you are still unable to resolve the problem after using all the suggestions, please contact your dealer or an authorised service centre .

NO PICTURE, SOUND

* *Ensure that the power switch is on.*
* *Ensure that the power cord is not damaged or the fuse is not blown.*

NO SOUND BUT HAVE PICTURE

* *Ensure that the player's audio output is properly connected to the speaker's audio input.*
* *Check whether the audio connector is damaged.*
* *Check whether you have turned down the volume.*
* *Ensure that the audio is not in MUTE mode.*

BLACK AND WHITE PICTURE OR SCREEN ROLLING

* *Ensure that you have set right mode of video system (e.g. PAL, NTSC).*

FLAWS OF PICTURE OR SOUND

* *Check whether disc is scratched or stained.*
* *Check whether AV connector and output terminal is stained.*
* *Check whether there is condensation inside the lens. If so, power on the player and do not work for an hour or so, then try again.*

DISPLAYS: NO DISC OR BAD DISC

* *Ensure that you have inserted a disc into the disc slot.*
* *Check whether disc is inserted with label side upwards.*
* *Check whether disc is bent.*
* *Check whether disc is stained or scratched badly.*
* *Ensure that disc format is compatible to the player.*
* *Ensure that temperature inside the car is not too high. If so, cool off until the ambient temperature returns to normal.*
* *Insert another disc into the disc slot.*

REMOTE CONTROL IS INSENSITIVE OR DOES NOT WORK

* *Check whether the lithium cell of the remote control is powerful and working properly.*
* *Direct the IR emitting window of the remote control to the IR sensor of main unit.*
* *Check whether there are some obstacles between remote control and main unit.*

SOME FUNCTION BUTTONS DO NOT WORK

* *Turn off ACC power, then turn on again.*
* *Reset unit to zero, then turn on again.*
* *Remove control panel from chassis, reattach it onto the chassis and then turn it on again.*

RADIO DOES NOT WORK

* *Check whether antenna cable is connected firmly.*
* *Manually tune for a station.*

Specification

General
Power Supply Requirement.....DC 12V
Current consumption.....15A MAX.
Output Power.....4 x 25 W

Audio
Signal Output.....2ch&4ch line out
Frequency Response.....20 Hz - 20 KHz
S/N Ratio.....90 dB (JIS)
Wow and Flutter.....Below measurable limits

TFT Monitor
Monitor Screen Size.....4.3 Inch Wide
Color System.....NTSC/PAL

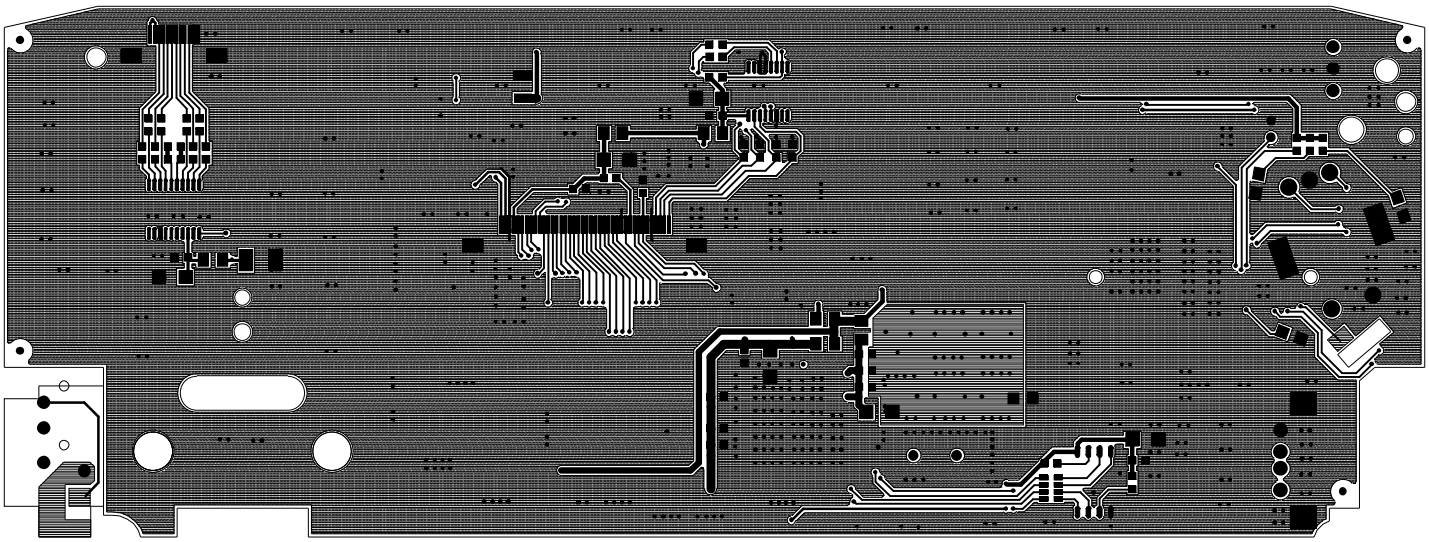
Disc/USB/Card
Compatible Format....Digital Video/MPEG4/VCD/IMAGE/MP3/WMA/CD

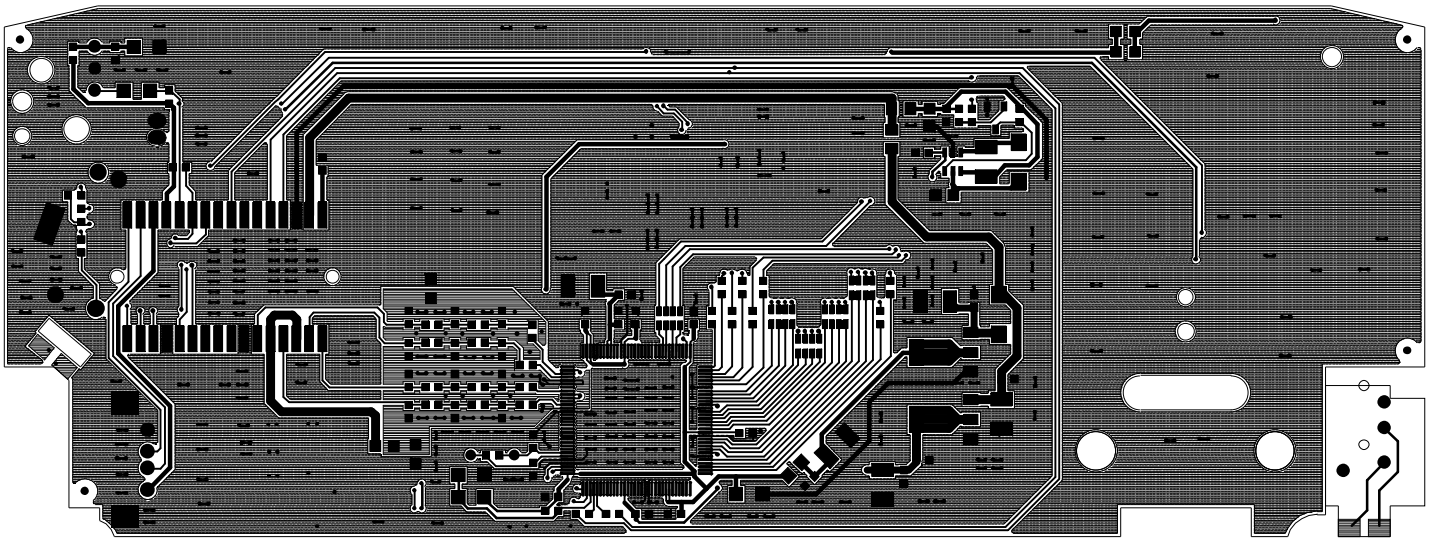
Radio
FM
Frequency range.....87.5MHz - 107.9MHz
Usable sensitivity.....15dBu
I.F Frequency.....10.7MHz
AM
Frequency.....530KHz - 1710KHz
Usable sensitivity.....40dBu
I.F Frequency.....450KHz

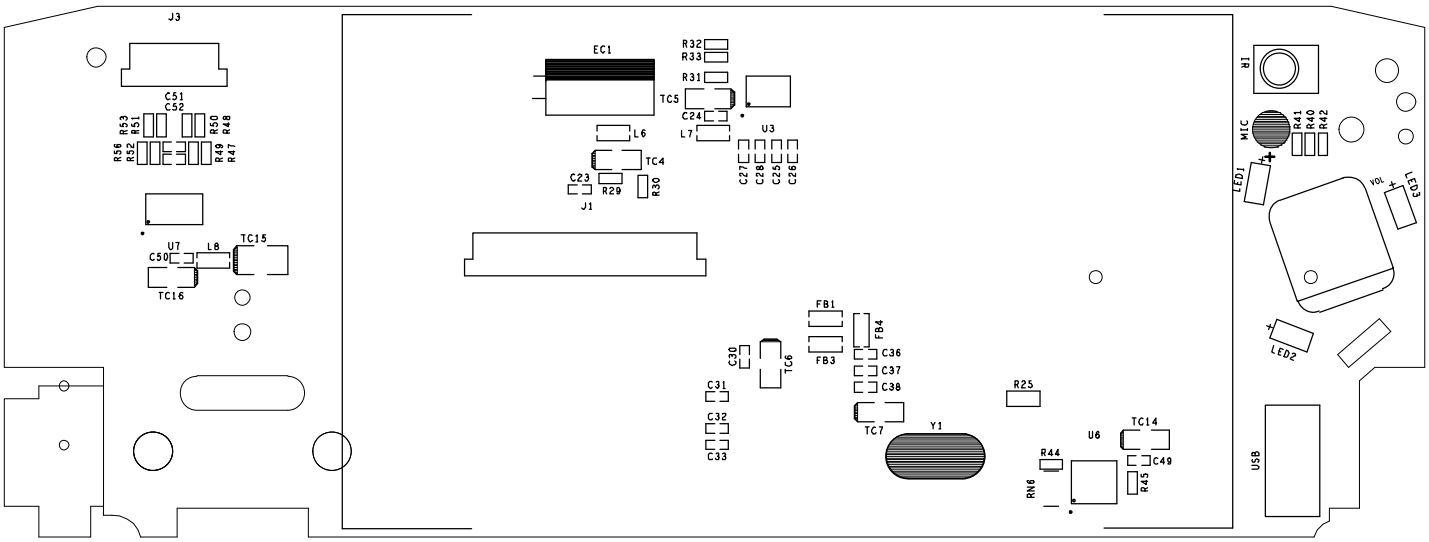
TV
TV System.....NTSC/PAL/SECAM
TV Sensitivity.....45dB uV@CH25 in average

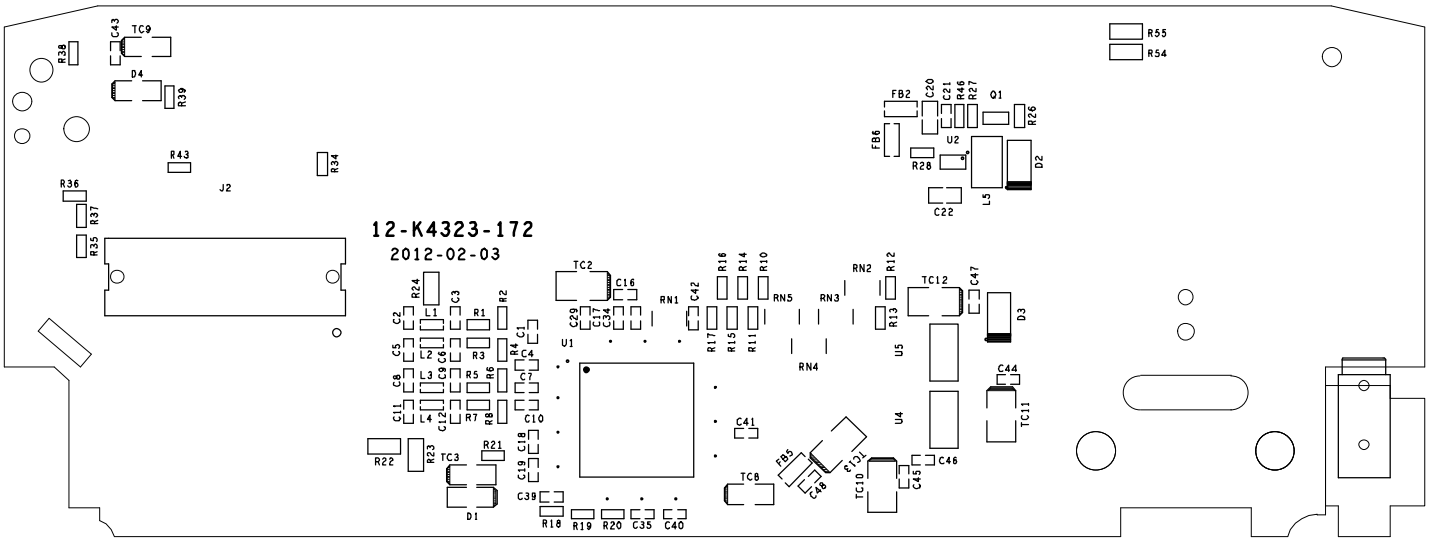
BT :
BT specification.....V1.2 Class 2
BT profile supported.....Headset, Handsfree and A2DP & AVRCP profiles
Range of frequency.....2.4GHz Spectrum

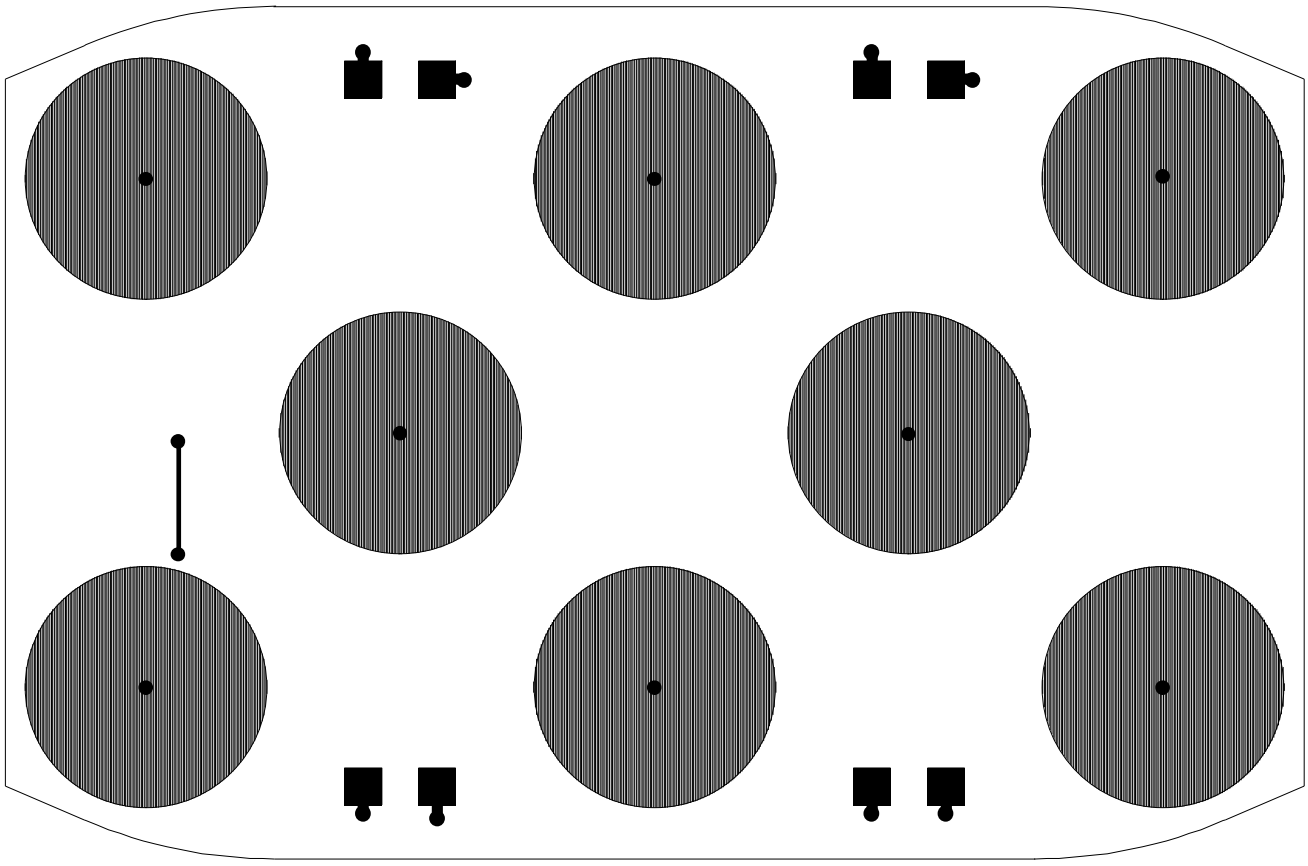
NOTE:
Specification and design are subject to modification, without notice, due to improvements in technology.

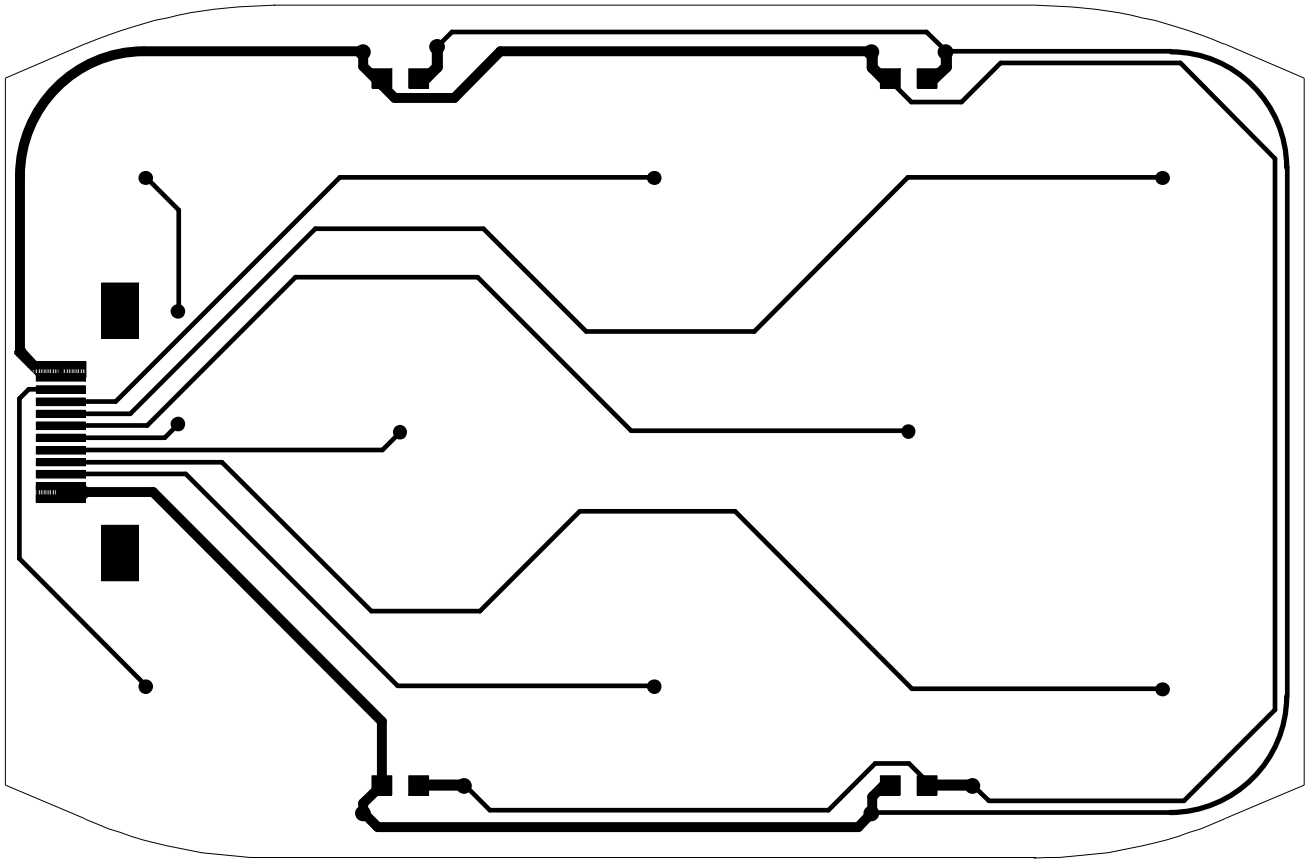


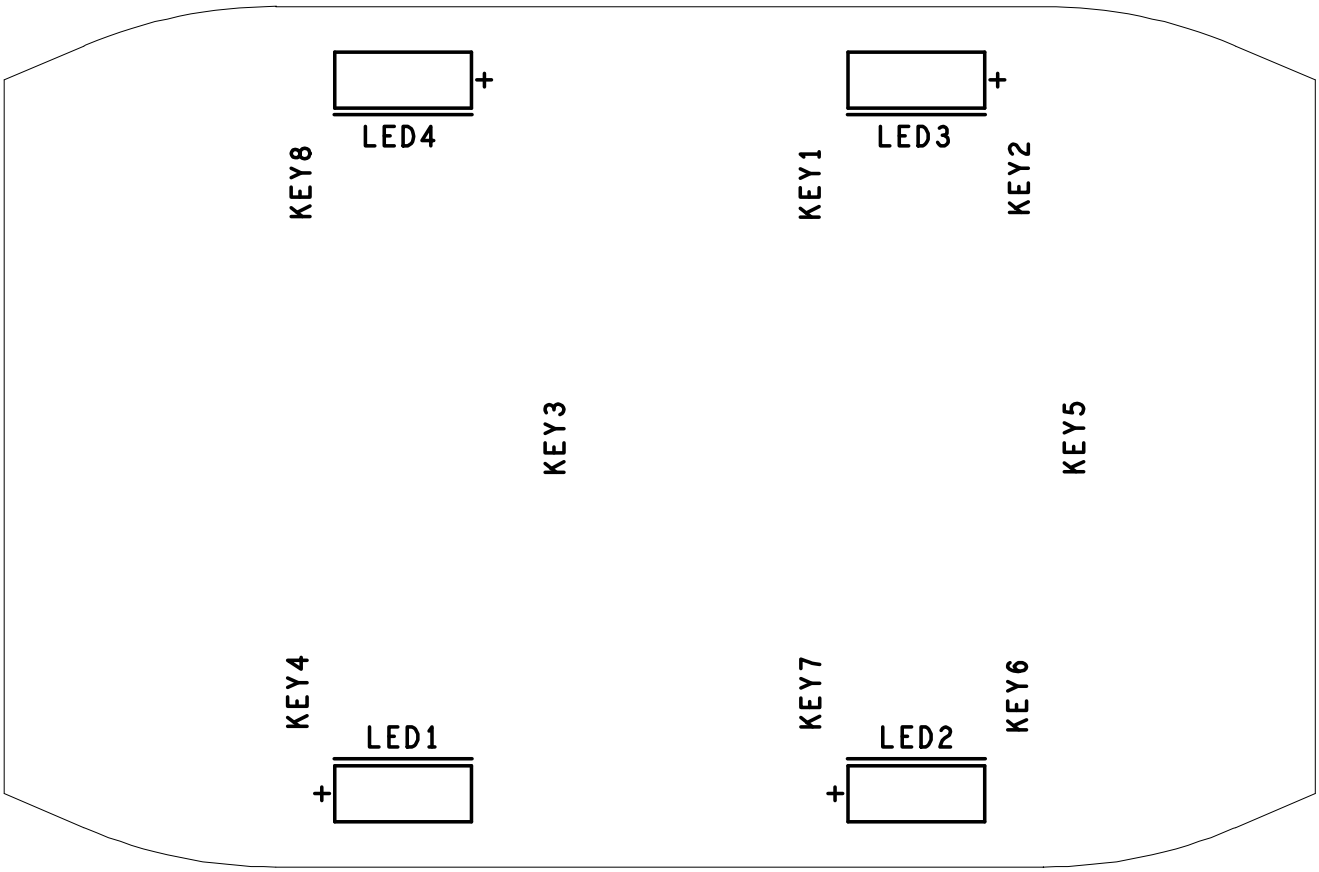


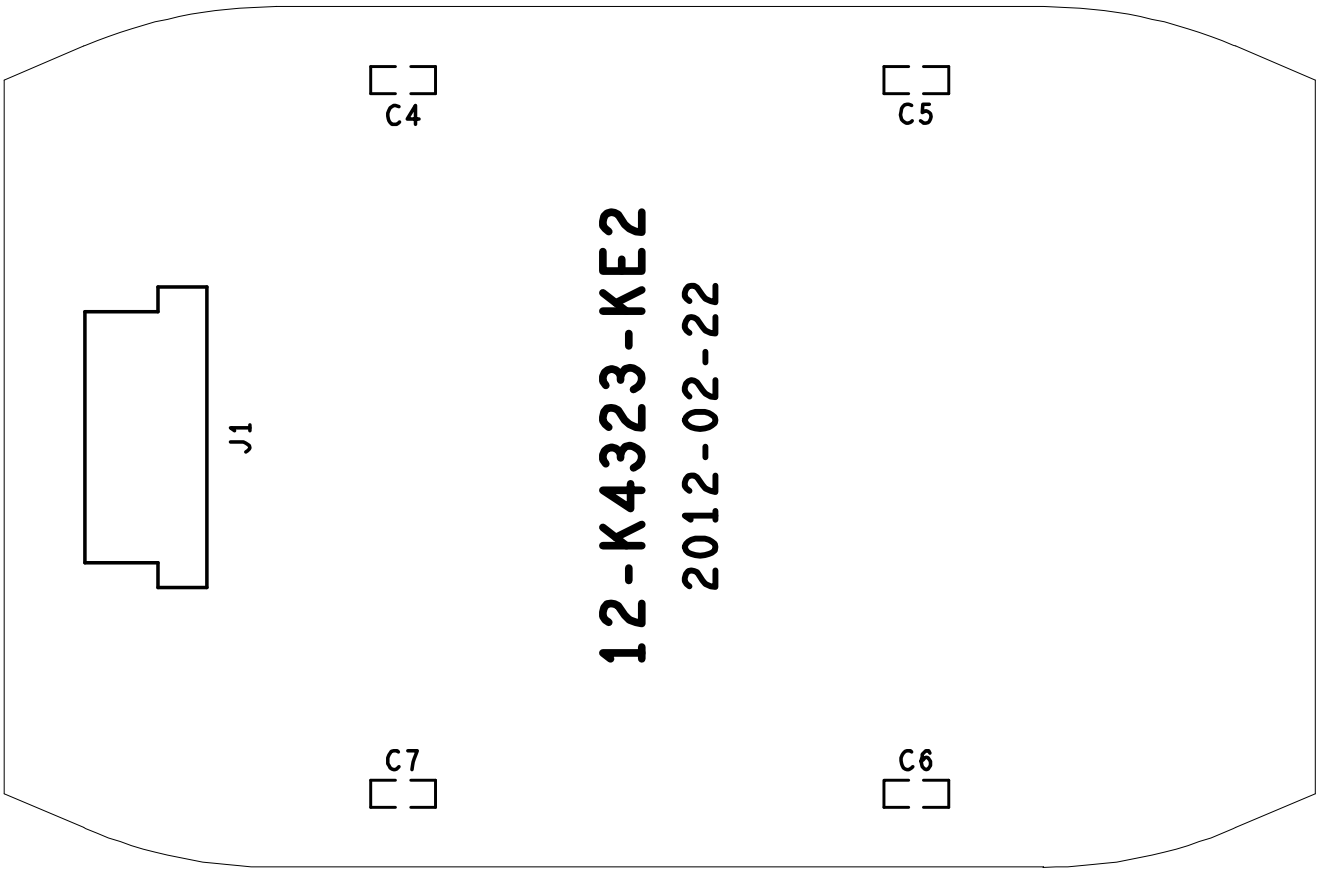

J3
C51
C52
R53
R51
R50
R48
R56
R52
R49
R47
U7
L8
TC15
C50
TC16
EC1
R32
R33
R31
TC5
C24
L7
U3
L6
TC4
C23
R29
R30
J1
C27
C28
C25
C26
IR
MIC
R41
R40
R42
LED1
VOL
LED3
LED2
FB1
FB4
FB3
C36
C37
C38
C30
TC6
C31
C32
C33
TC7
Y1
R25
U6
TC14
C49
R44
R45
RN6
USB

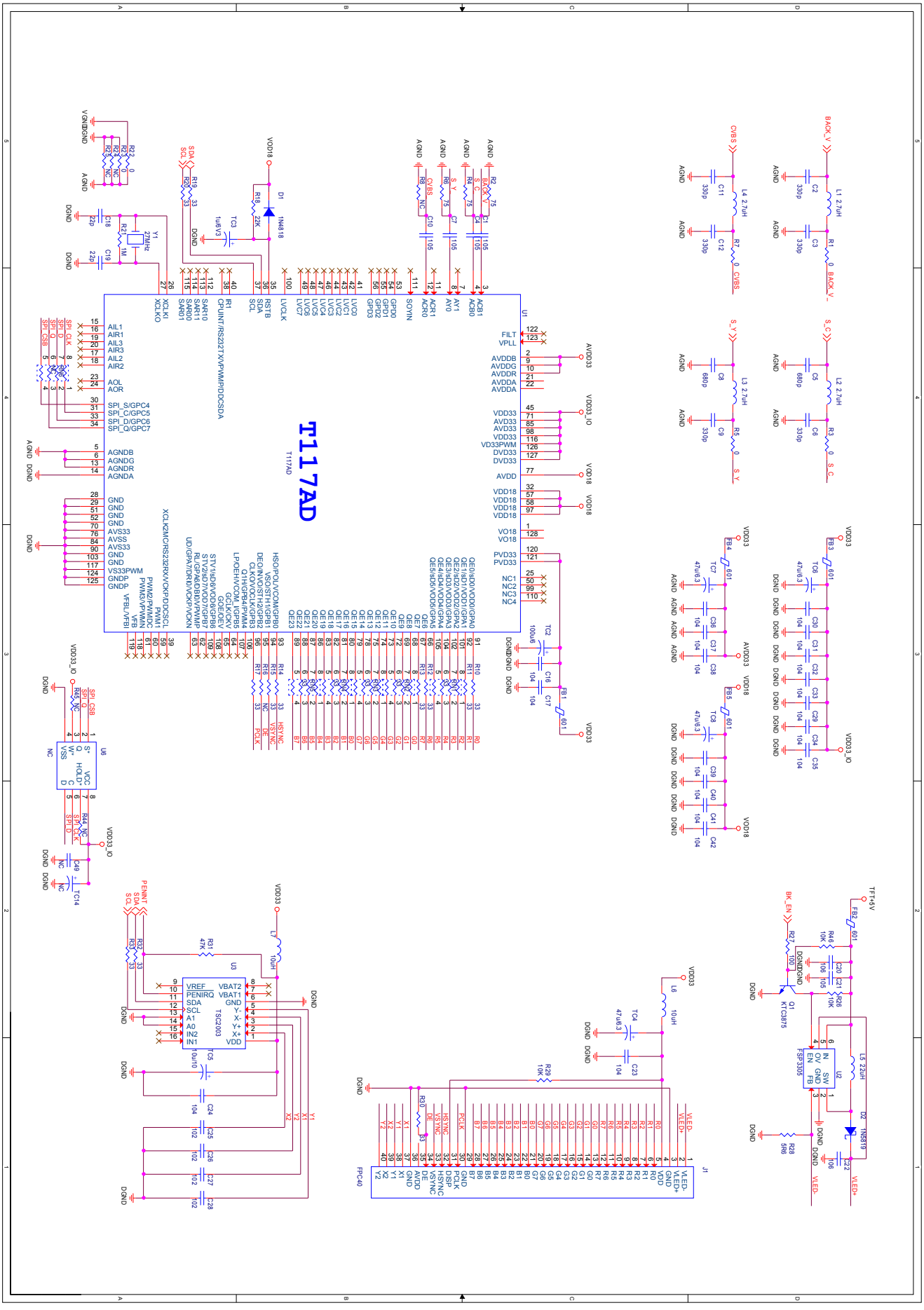

C43
TC9
R38
D4
R39
R43
R34
R36
J2
R37
R35
12-K4323-172
2012-02-03
R55
R54
FB2
C20
C21
R46
R27
Q1
R26
FB6
U2
R28
D2
L5
C22
TC2
C16
R16
R14
R10
RN2
R12
TC12
C47
RN1
C42
RN5
RN3
R13
D3
R17
R15
R11
RN4
U5
C44
TC11
U1
C41
U4
FB5
C48
TC10
C45
C46
TC8
D1
R18
R19
R20
C35
C40
R24
C3
L1
R1
R2
C2
C5
L2
R3
R4
C1
C4
C8
L3
C6
R5
R6
C7
C11
L4
C12
R7
R8
C10
R22
R23
TC3
R21
C18
C19
C39

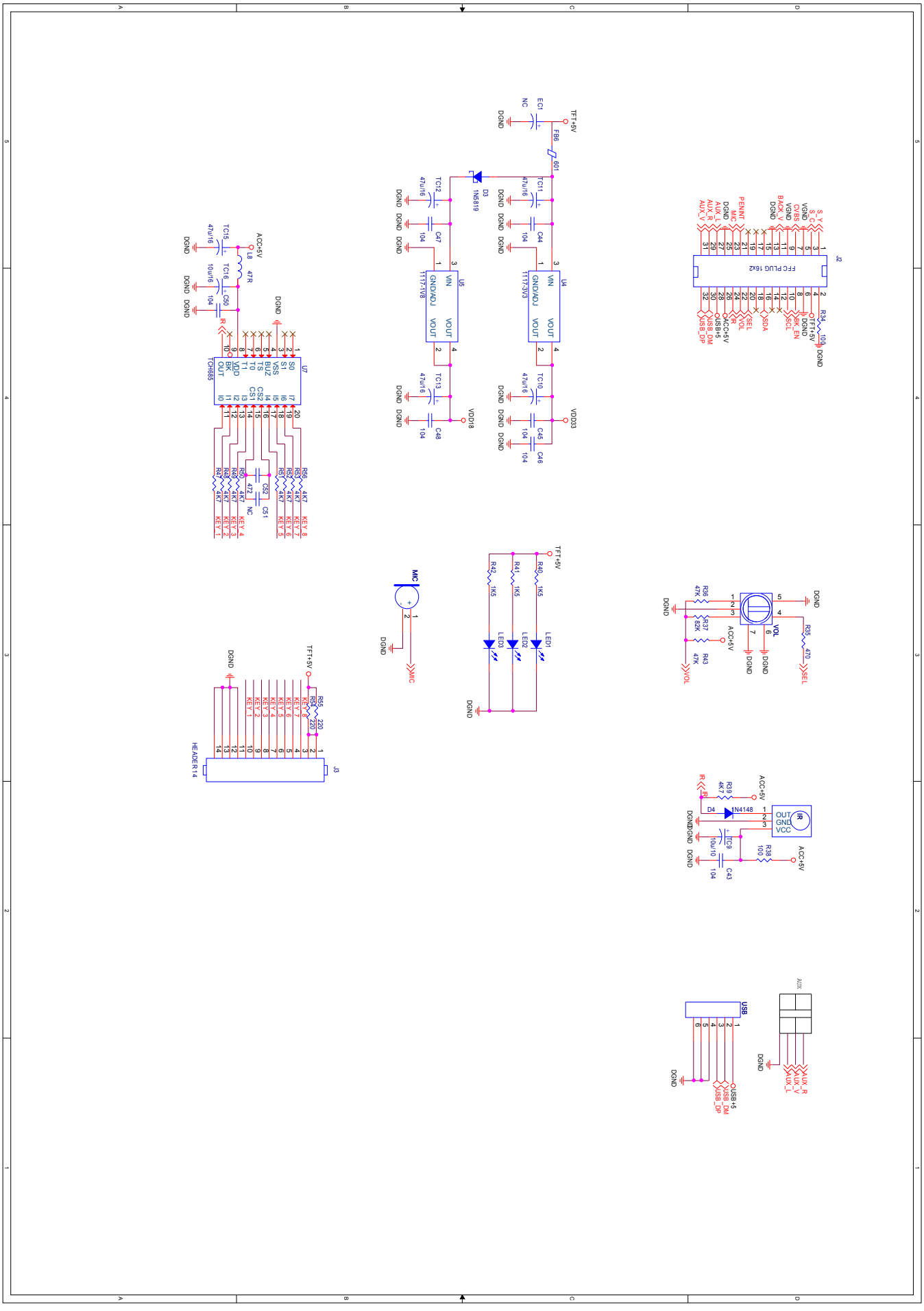


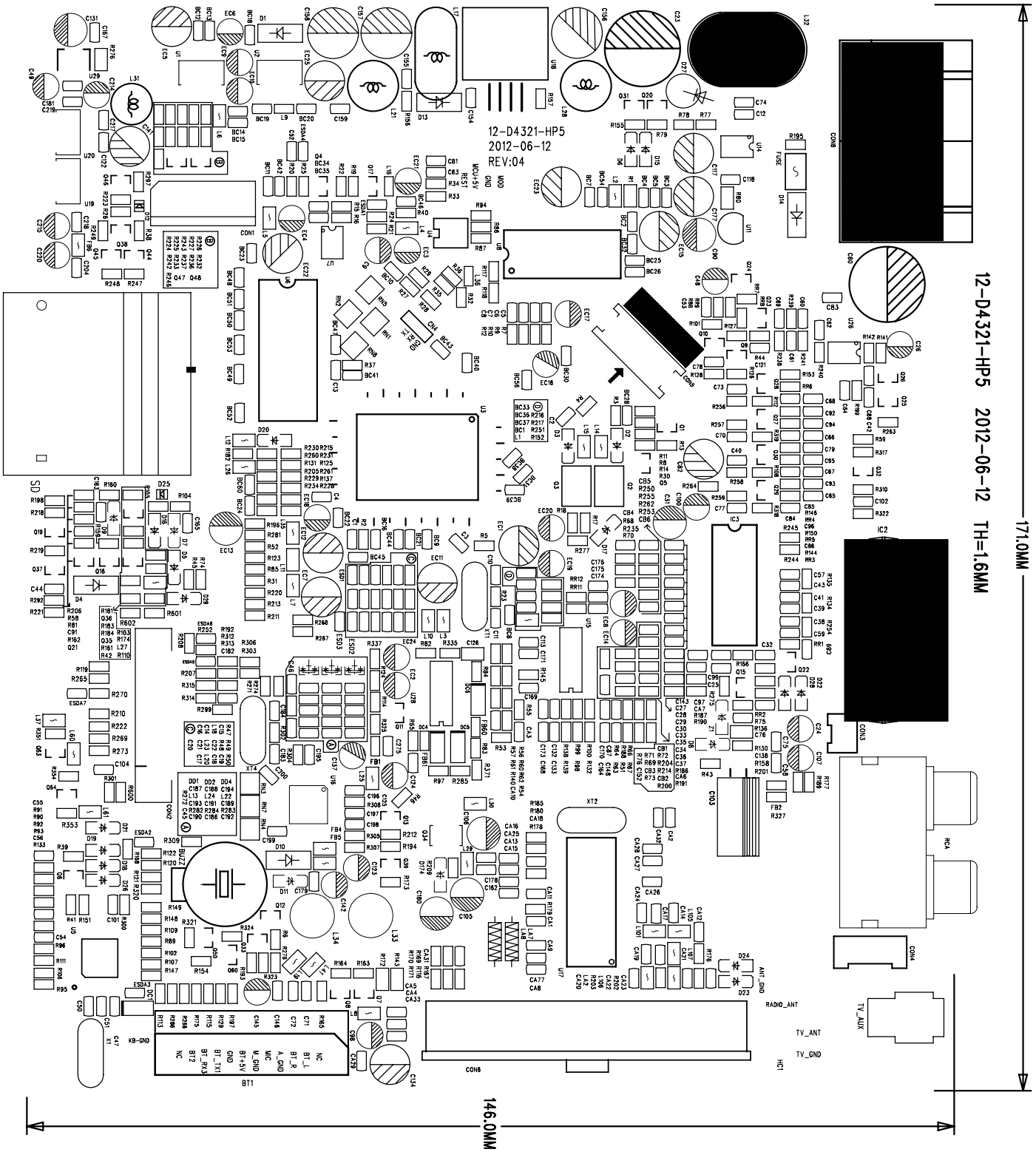


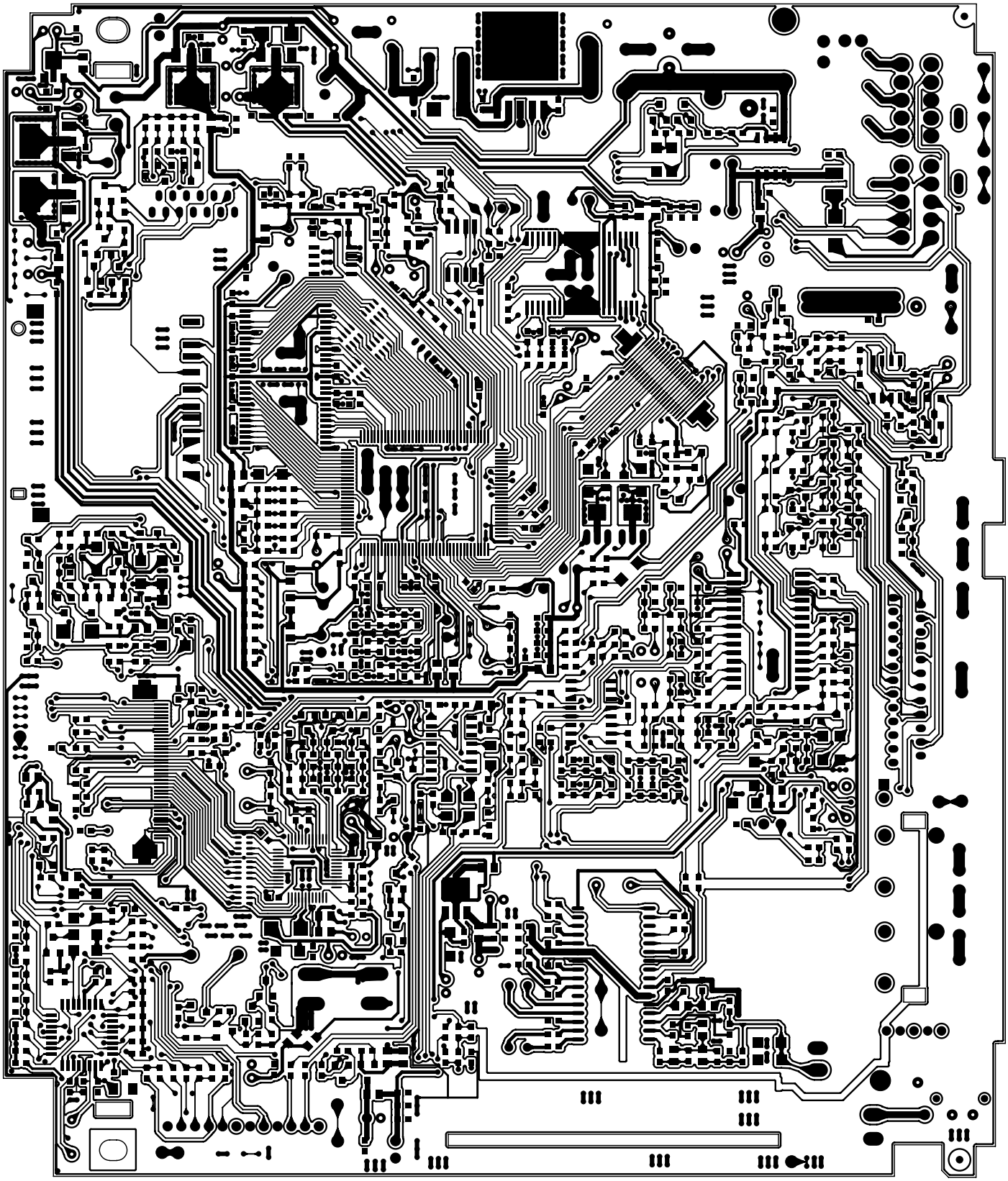

LED4
LED3
KEY8
KEY1
KEY2
KEY3
KEY5
KEY4
KEY7
KEY6
LED1
LED2

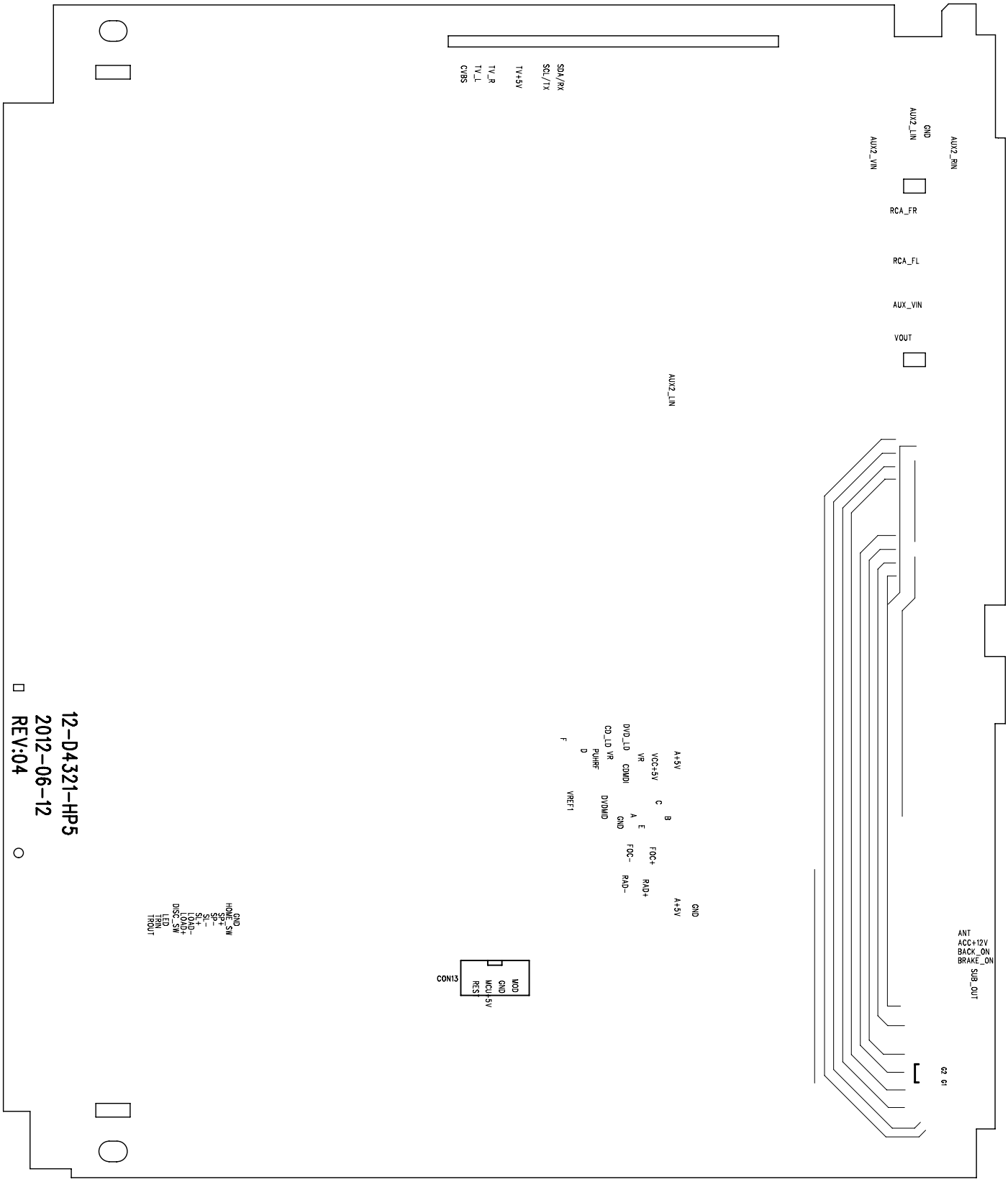

C4
C5
J1
12-K4323-KE2
2012-02-22
C7
C6

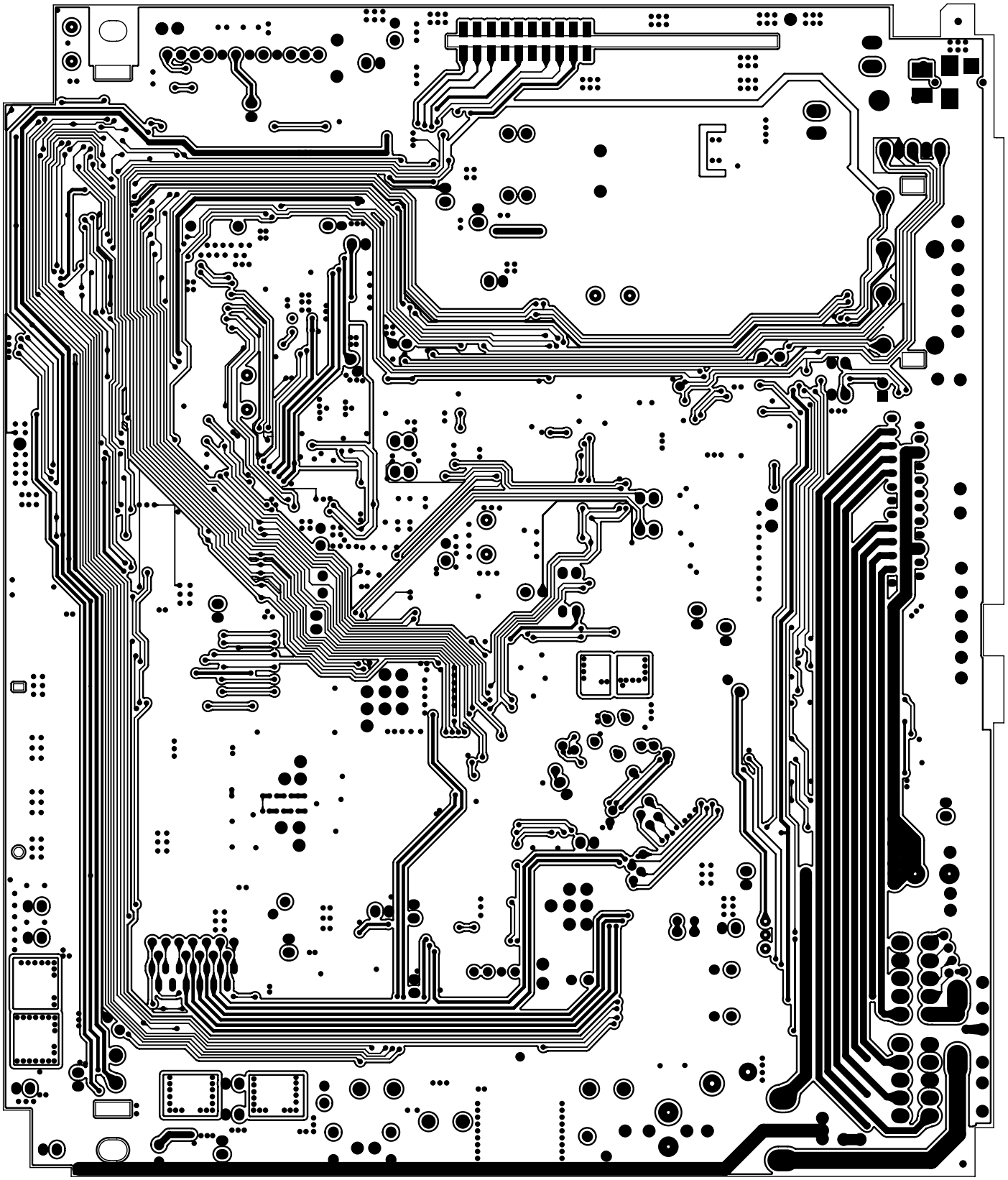

T117AD
U1
U2
U3
U6
J1
Q1
D1
D2
Y1
L1 2.7uH
L2 2.7uH
L3 2.7uH
L4 2.7uH
L5 22uH
L6 10uH
L7 10uH
FB1 601
FB2 601
FB3 601
FB4 601
FB5 601
TF+5V
VDD33
VDD18
VDD33_IO
AVDD33
AGND
DGND
BACK_V
S_C
S_Y
CVBS
SDA
SCL
PENINT
BK_EN
VLED+
VLED-
FPC40
TSC2003
FSP3305
KTC3875
1N4818
1N5819
XCLK2/MCRS232RXVCKP/DDSCSL
CPUINT/RS232TXVPWMP/DDCSDA
HSO/RGLV0/COMGPB0
DEO/INVO/STH2/GPB2
CLKOVOCLK/GPB3
G1H/GPB4/PWM4
LPOEH/VCOM/GPB5
GOECKV
GOEOEV
STV1/sD6/VOD6/GPB6
STV2/sD7/VOD7/GPB7
RLO/VSTH1/GPB1
UD/GPA7/SRDI/VCKP/VCKN
PWM2/PWM2C
PWM3/VPWM3
PWM1/PWM1C
VFB
VFBI
SPI_S/GPC4
SPI_C/GPC5
SPI_D/GPC6
SPI_Q/GPC7
AOL
AOR
AGNDB
AGNDG
AGNDR
AGNDA
VS33PWM
GNDP
GNDP
FILT
VPLL
AVDDB
AVDDG
AVDDR
AVDDA
AVDDA
VO18
VO18
PVD33
PVD33
NC1
NC2
NC3
NC4
VDD33
VDD33
VDD33
VDD33
VDD33PWM
DVD33
DVD33
AVDD
VDD18
VDD18
VDD18
VDD18
GND
GND
GND
GND
AVS33
AVSS
AVSS
GND
GND
VS33PWM
GNDP
GNDP
XCLKI
XCLKO
IR1
RSTB
SDA
SCL
LVCLK
LVC7
LVC6
LVC5
LVC4
LVC3
LVC2
LVC1
LVC0
GPD3
GPD2
GPD1
GPD0
SOYIN
ACR1
ACR0
AY1
AY0
ACB1
ACB0
SAR11
SAR10
SAR9
SAR8
SAR1
SAR0
QE9/9D9/VOD9/GPA0
QE10/9D1/VOD1/GPA1
QE29/D2/VOD2/GPA2
QE3/9D3/VOD3/GPA3
QE4/9D4/VOD4/GPA4
QE5/9D5/VOD5/GPA5
QE6
QE7
QE8
QE9
QE10
QE11
QE12
QE13
QE14
QE15
QE16
QE17
QE18
QE19
QE20
QE21
QE22
QE23
R0
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
HSYNC
VSYNC
DE
PCLK
SPI_CSB
SPI_CLK
SPI_D
SPI_Q
VLED-
VLED+
PCLK
HSYNC
VSYNC
DISP
DE
AVDD
GND
X1
Y1
X2
Y2
VBAT2
VBAT1
GND
Y-
X-
Y+
X+
VDD
VREF
PENIRQ
SDA
SCL
A1
A0
IN2
IN1
VCC
HOLD
C
D
S
W
VSS
IN
OV
GND
EN
SW
FB
T117AD

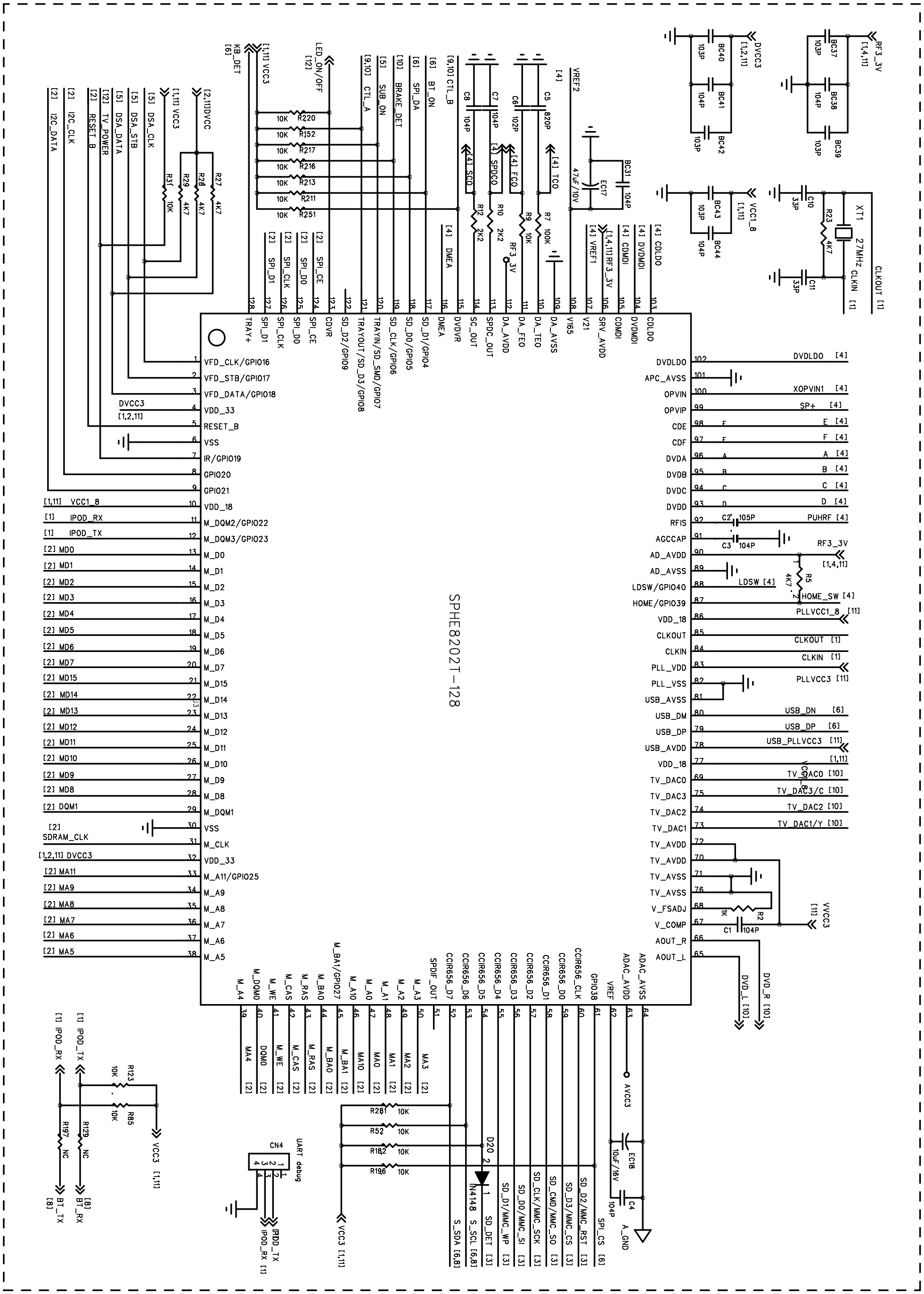

FFC PLUG 16x2
J2
S_Y
S_C
VGND
CVBS
VGND
BACK_V
DGND
PENIRQ
MIC
DGND
AUX_L
AUX_R
AUX_V
R34
10R
OTFT+5V
DGND
SBK_EN
SSCL
SSDA
SSEL
SVOL
SACC+5V
SUSB+5
SUSB_DM
SUSB_DP
TFT+5V
EC1
NC
FB6
60R
D3
1N5819
TC11
47u/16
TC12
47u/16
C44
104
C47
104
U4
AMS1117-3V3
U5
AMS1117-V18
VIN
GND/ADJ
VOUT
TC10
47u/16
TC13
47u/16
C45
104
C46
104
C48
104
VDD33
VDD18
DGND
ACC+5V
L8
47R
TC15
47u/16
TC16
10u/16
C50
104
R
U7
TCH885
S0
S1
VSS
BUZ
TS
TO
VDD
BK
OUT
T1
I0
I1
I2
I3
CS1
CS2
I4
I5
I6
I7
R51
4K7
R52
4K7
R53
4K7
R54
4K7
R55
4K7
R56
4K7
R57
4K7
R58
4K7
R59
4K7
R60
4K7
C52
472
C51
NC
KEY_1
KEY_2
KEY_3
KEY_4
KEY_5
KEY_6
KEY_7
KEY_8
MIC
R42
1K5
R41
1K5
R40
1K5
LED3
LED2
LED1
R36
47K
R37
82K
R43
47K
VOL
R35
470
SEL
R39
4K7
IR
D4
1N4148
TC9
10u/10
C43
104
R38
100
OUT
GND
VCC
USB
AUX
HEADER 14
J3
R65
R64
220
220


12-D4321-HP5
2012-06-12
REV:04
12-D4321-HP5 2012-06-12 TH=1.6MM
171.0MM
146.0MM
SD
BT1
CON1
CON2
CON3
CON4
CON5
CON6
CON8
IC2
IC3
RCA
TV_AUX
TV_ANT
TV_GND
RADIO_ANT
ANT_GND
KB-GND
BUZZ1
HC1
XT1
XT2
XT4



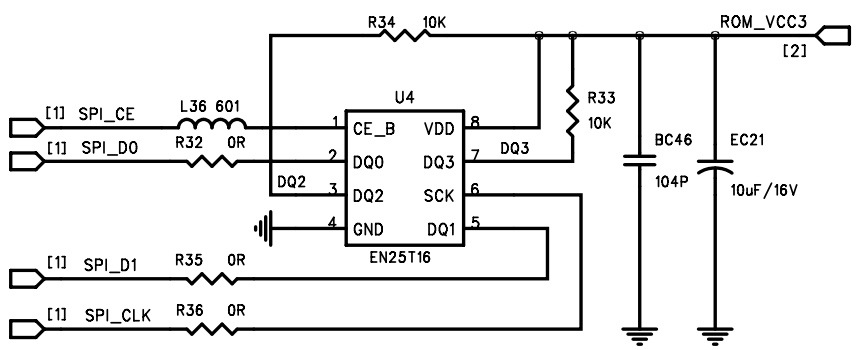

SDA/RX
SCL/TX
5V
TV_R
TV_L
CVBS
AUX2_RIN
GND
AUX2_LIN
AUX2_VIN
RCA_FR
RCA_FL
AUX_VIN
VOUT
AUX2_LIN
A+5V
VCC+5V
VR
DVD_LD
CD_LD
VR
PUHRF
D
F
VREF1
C
B
E
A
GND
DVDMD
CDMDI
FOC+
FOC-
RAD+
RAD-
A+5V
GND
CON13
MOD
GND
MCU+5V
RES
GND
HOME_SW
SP+
SP-
SL+
SL-
LOAD-
LOAD+
DISC_SW
LED
TRAY
TROUT
ANT
ACC+12V
BACK_ON
BRAKE_ON
SUB_OUT
C2
C1
12-D4321-HP5
2012-06-12
REV:04

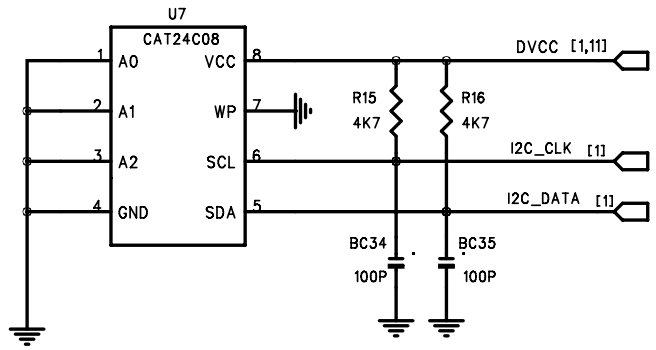


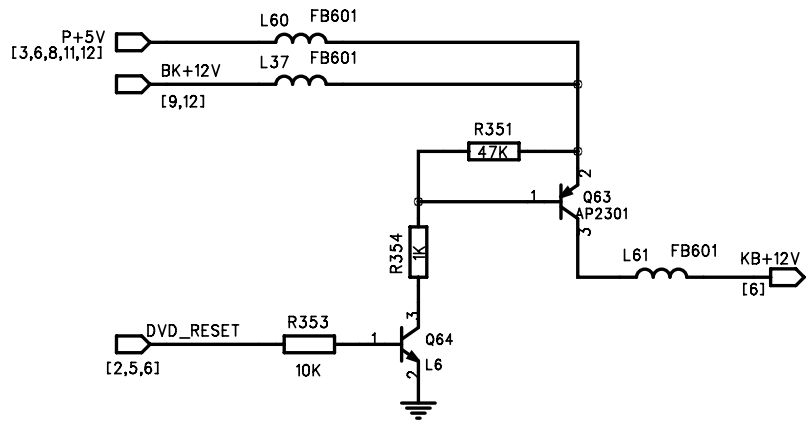

SPHE8202T-128
RF3_3V [1,4,11]
BC37 103P
BC38 104P
BC39 103P
DVCC3 [1,2,11]
BC40 103P
BC41 104P
BC42 103P
XT1 27MHz
CLKOUT [1]
CLKIN [1]
C10 33P
C11 33P
R23 4K7
VCC1_8 [1,11]
BC43 103P
BC44 104P
VREF2 [4]
EC17 47uF/10V
BC31 104P
C5 820P
C6 102P
C7 104P
C8 104P
[4] TCO
[4] FCO
[4] SPDCO
[4] SCO
R7 100K
R9 10K
R10 2K2
R12 2K2
RF3_3V
[4] CDLDO
[4] DVDMDI
[4] CDMDI
[1,4,11] RF3_3V
[4] VREF1
V165
DA_AVSS
DA_TEO
DA_FEO
DA_AVDD
SPDC_OUT
SC_OUT
DVDVR
DMEA
SD_D1/GPIO4
SD_D0/GPIO5
SD_CLK/GPIO6
TRAYIN/SD_SMD/GPIO7
TRAYOUT/SD_D3/GPIO8
SD_D2/GPIO9
CDVR
SPI_CE
SPI_DO
SPI_CLK
SPI_D1
TRAY+
KB_DET [6]
[1,11] VCC3
LED_ON/OFF [2]
10K R220
10K R152
10K R217
10K R216
10K R213
10K R211
10K R251
[9,10] CTL_B
[6] BT_ON
[6] SPI_DA
[10] BRAKE_DET
[5] SUB_ON
[9,10] CTL_A
[2,11]DVCC
R27 4K7
R28 4K7
R29 4K7
R31 10K
[1,11] VCC3
[5] DSA_CLK
[5] DSA_STB
[5] DSA_DATA
[12] TV_POWER
[2] RESET_B
[2] I2C_CLK
[2] I2C_DATA
DVDLDO [4]
XOPVIN1 [4]
SP+ [4]
E [4]
F [4]
A [4]
B [4]
C [4]
D [4]
PUHRF [4]
RF3_3V [1,4,11]
LDSW [4]
HOME_SW [4]
PLLVCC1_8 [11]
CLKOUT [1]
CLKIN [1]
PLLVCC3 [11]
USB_DN [6]
USB_DP [6]
USB_PLLVCC3 [11]
[1,11]
TV_DAC0 [10]
TV_DAC3/C [10]
TV_DAC2 [10]
TV_DAC1/Y [10]
VCC3 [11]
DVD_L [10]
DVD_R [10]
AVCC3
EC18 10uF/16V
C4 104P
A_GND
SPI_CS [6]
SD_D2/MMC_RST [3]
SD_D3/MMC_CS [3]
SD_CMD/MMC_SO [3]
SD_CLK/MMC_SCK [3]
SD_D0/MMC_SI [3]
SD_D1/MMC_WP [3]
SD_DET [3]
S_SCL [6,8]
S_SDA [6,8]
D20 1N4148
R281 10K
R52 10K
R182 10K
R196 10K
VCC3 [1,11]
CN4 UART debug
IPOD_TX [8]
IPOD_RX [1]
R123 10K
R85 10K
R129 NC
R197 NC
[1] IPOD_RX
[1] IPOD_TX
[8] BT_RX
[8] BT_TX
VFD_CLK/GPIO16
VFD_STB/GPIO17
VFD_DATA/GPIO18
DVCC3 [1,2,11]
VDD_33
RESET_B
VSS
IR/GPIO19
GPIO20
GPIO21
[1,11] VCC1_8
VDD_18
[1] IPOD_RX
[1] IPOD_TX
M_DQM2/GPIO22
M_DQM3/GPIO23
[2] MD0
[2] MD1
[2] MD2
[2] MD3
[2] MD4
[2] MD5
[2] MD6
[2] MD7
[2] MD15
[2] MD14
[2] MD13
[2] MD12
[2] MD11
[2] MD10
[2] MD9
[2] MD8
[2] DQM1
[2] SDRAM_CLK
[1,2,11] DVCC3
[2] MA11
[2] MA9
[2] MA8
[2] MA7
[2] MA6
[2] MA5
M_D0
M_D1
M_D2
M_D3
M_D4
M_D5
M_D6
M_D7
M_D15
M_D14
M_D13
M_D12
M_D11
M_D10
M_D9
M_D8
M_DQM1
VSS
M_CLK
VDD_33
M_A11/GPIO25
M_A9
M_A8
M_A7
M_A6
M_A5
M_BA1/GPIO27
M_BA0
M_RAS
M_CAS
M_WE
M_DQM0
M_A4
SPDIF_OUT
M_A3
M_A2
M_A1
M_A0
M_A10
M_BA1 [2]
M_BA0 [2]
M_RAS [2]
M_CAS [2]
M_WE [2]
DQM0 [2]
MA4 [2]
MA3 [2]
MA2 [2]
MA1 [2]
MA0 [2]
MA10 [2]
DVDLDO
APC_AVSS
OPVIN
OPVIP
CDE
CDF
DVDA
DVDB
DVDC
DVDD
RFIS
AGCCAP
AD_AVDD
AD_AVSS
LDSW/GPIO40
HOME/GPIO39
VDD_18
CLKOUT
CLKIN
PLL_VDD
PLL_VSS
USB_AVSS
USB_DM
USB_DP
USB_AVDD
VDD_18
TV_DAC0
TV_DAC3
TV_DAC2
TV_DAC1
TV_AVDD
TV_AVDD
TV_AVSS
TV_AVSS
V_FSADJ
V_COMP
AOUT_R
AOUT_L
ADAC_AVSS
ADAC_AVDD
VREF
GPIO38
CCIR656_CLK
CCIR656_D0
CCIR656_D1
CCIR656_D2
CCIR656_D3
CCIR656_D4
CCIR656_D5
CCIR656_D6
CCIR656_D7
C2 105P
C3 104P
R5 4K7
R2 1K
C1 104P

PREMIER
WWW.PREMIERMUNDO.COM

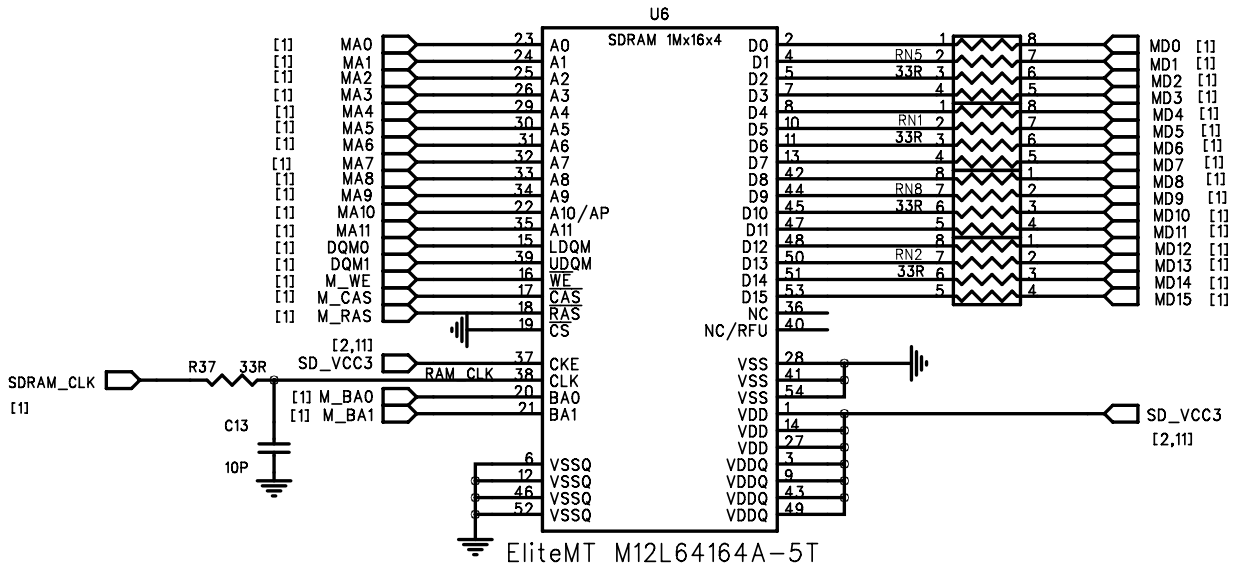
Flash

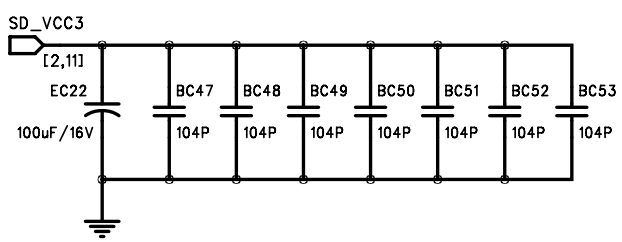




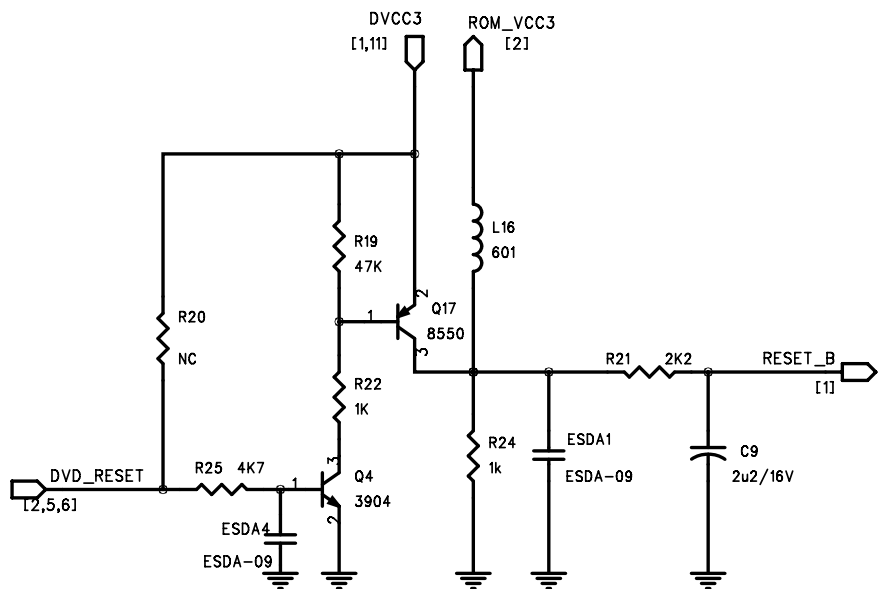


SDROM

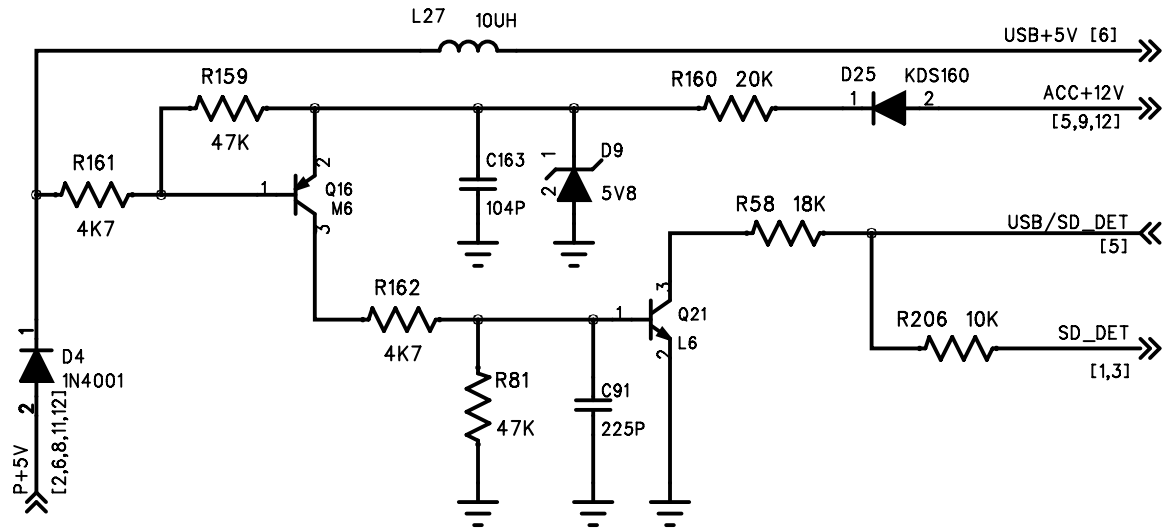




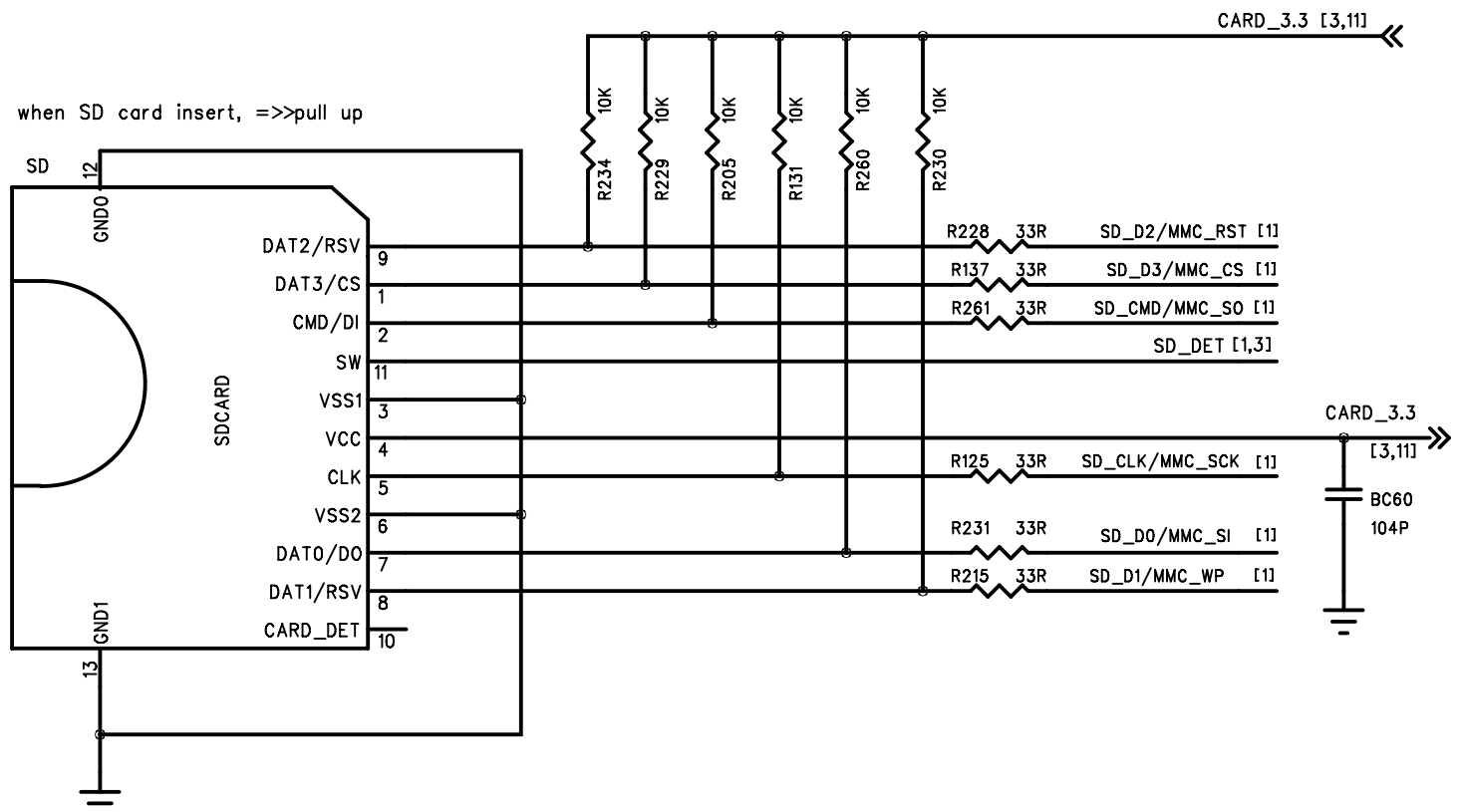
RESTE



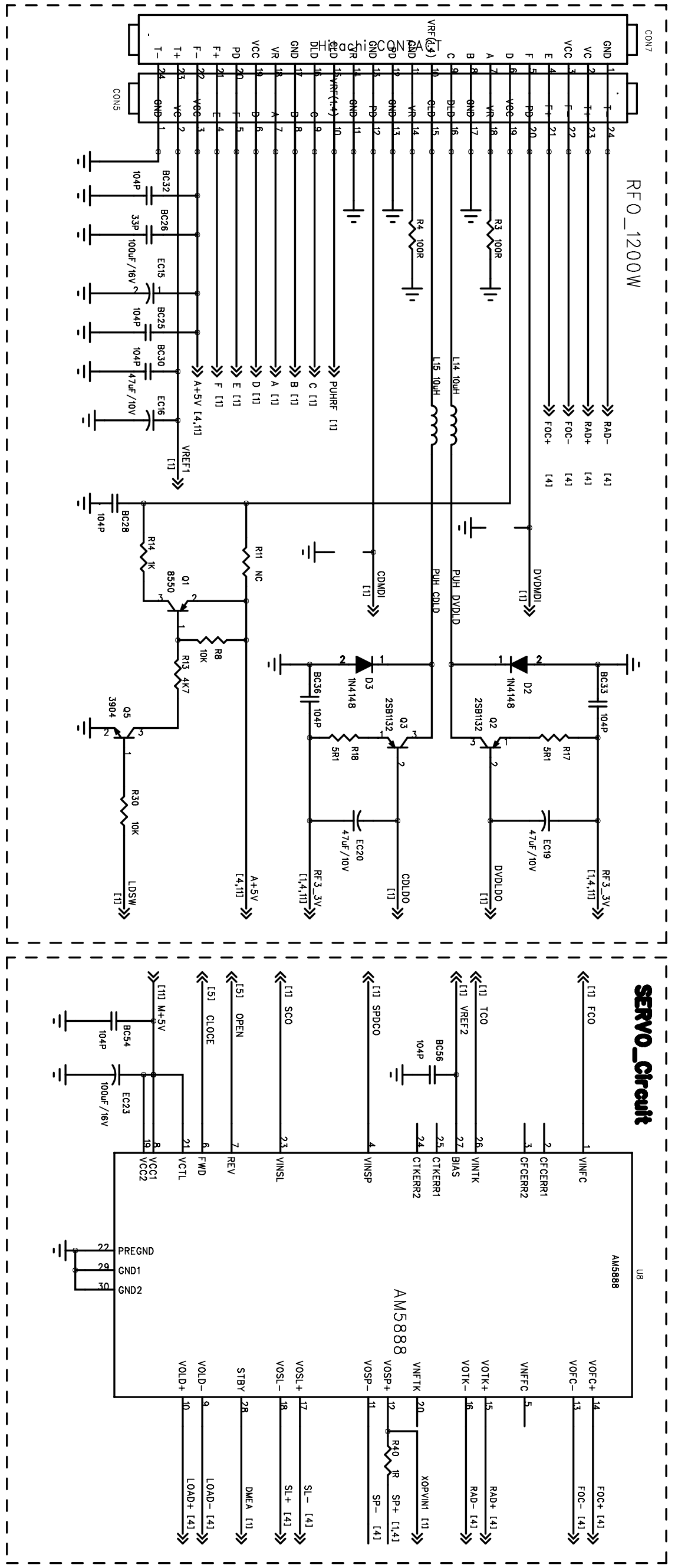
USB & SD DET Circuit

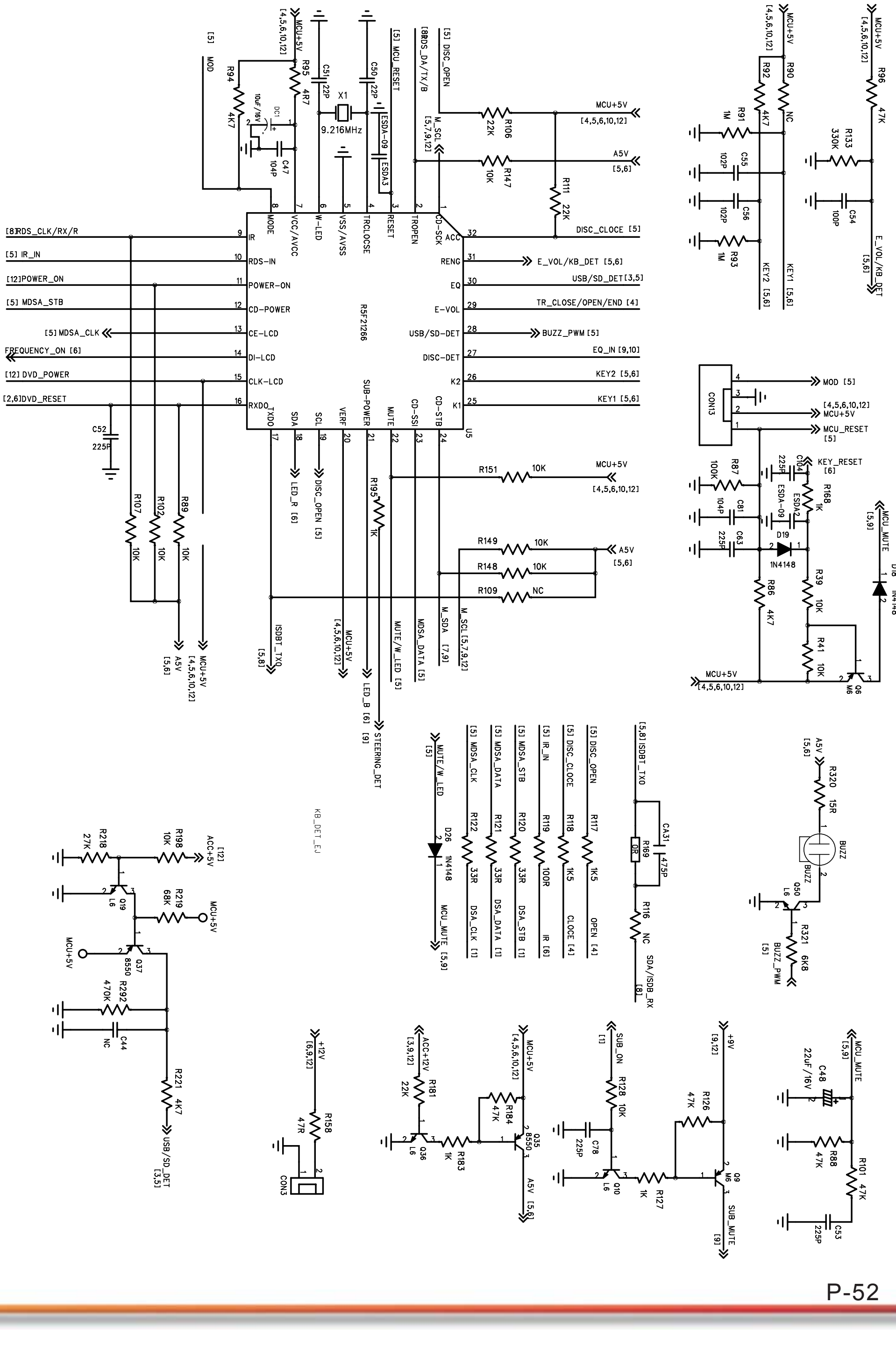


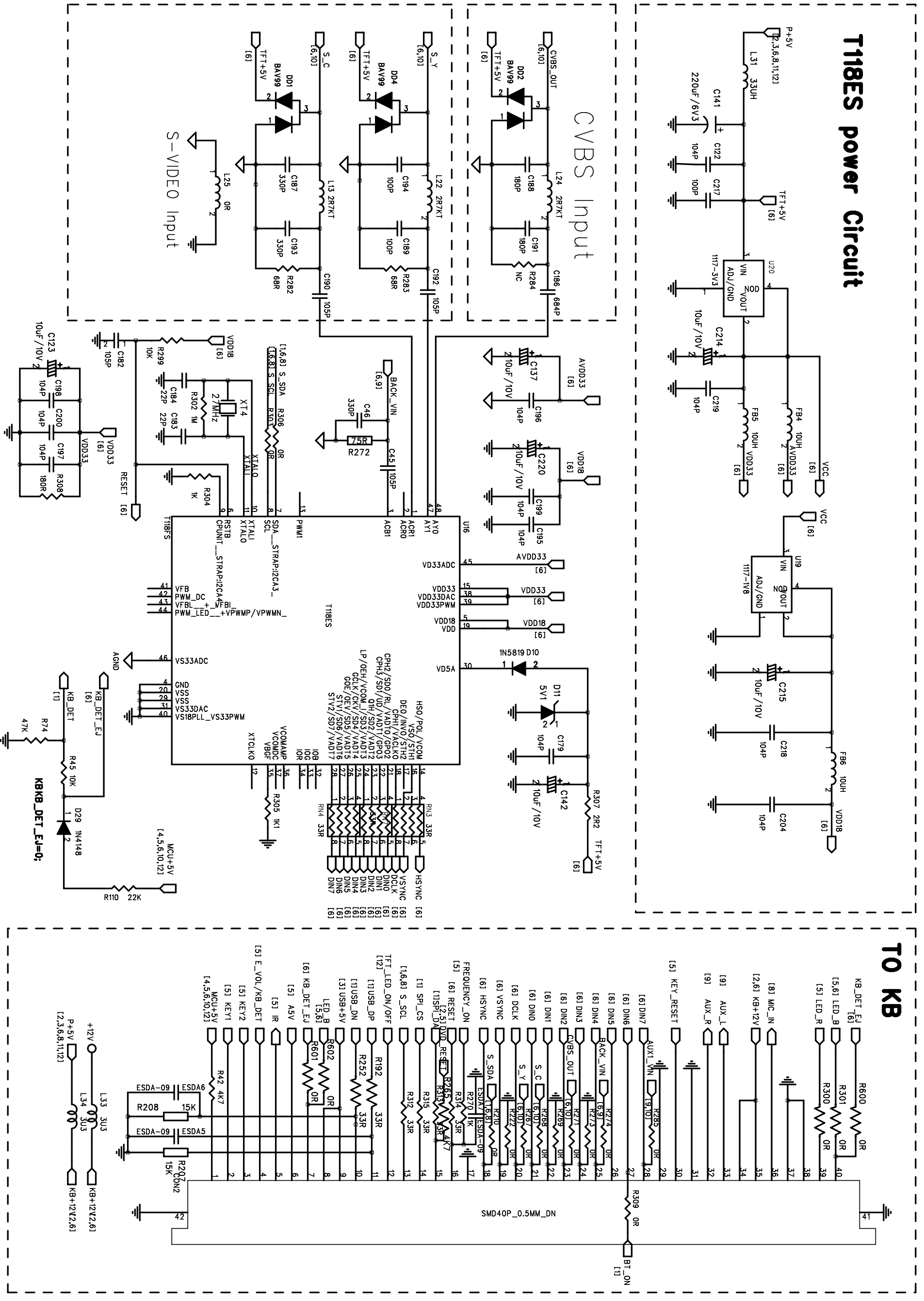
SD and MMC



WWW.PREMIERMUNDO.COM

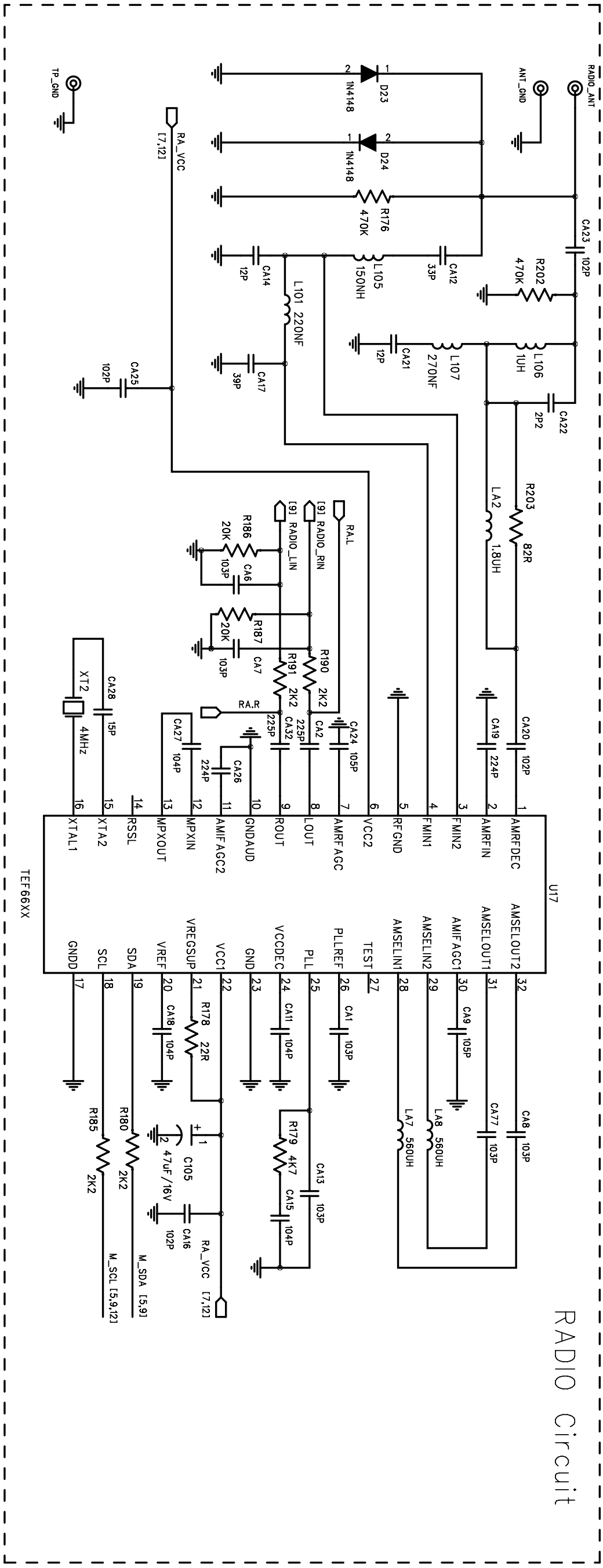

RFO_1200W
CON7
CON5
Hitachi
CONNECT
GND
VC
VCC
E
F
D
A
B
C
VREF(1.4)
GND
GND
VR
GND
GND
VCC
PD
F+
F-
T+
T-
VREF(1.4)
DLD
GND
VR
VCC
PD
F
E
D
C
B
A
VR
GND
DLD
GND
VR
GND
GND
PD
E
F
VCC
VC
GND
T-
T+
F-
F+
PD
VCC
GND
VR
DLD
GND
VR
GND
GND
D
C
B
A
VR
GND
DLD
GND
VR
GND
GND
PD
F
E
VCC
VC
GND
T-
T+
F-
F+
PD
VCC
GND
VR
DLD
GND
VR
GND
GND
D-
D+
C-
C+
RAD-
RAD+
FOC-
FOC+
L14 10uH
L15 10uH
R3 100R
R4 100R
BC32 104P
BC26 33P
EC15 100uF/16V
BC25 104P
BC30 104P
EC16 47uF/10V
BC28 104P
R14 1K
R11 NC
Q1 8550
R8 10K
R13 4K7
Q5 3904
R30 10K
LDSW [1]
A+5V [4,11]
VREF1 [1]
PUHRF [1]
C [1]
B [1]
A [1]
D [1]
E [1]
F [1]
A+5V [4,11]
CDMDI [1]
PUH_DVDLD
PUH_CDLD
DVDMDI [1]
BC33 104P
D2 1N4148
Q2 2SB1132
R17 5R1
EC19 47uF/10V
DVDLDO [1]
RF3_3V [1,4,11]
BC36 104P
D3 1N4148
Q3 2SB1132
R18 5R1
EC20 47uF/10V
CDLDO [1]
RF3_3V [1,4,11]
MCU+5V [5,6,10,12]
R247 47K
Q44 8550
R248 1K
ACC/MSCL_PWN [12]
R249 10K
Q45 L6
D12 KDS160
R38 68K
R223 47K
Q46 8550
Q38 L6
R26 1K
LED2 [4]
R297 180R
DISC-SW [4]
R224 22K
R225 47K
R227 22K
R226 22K
R243 22K
R233 100R
R232 100R
Q47 L6
Q48 L6
R242 200K
R236 100K
R237 100K
R246 68K
TROUT_SENSE [4]
TRIN_SENSE [4]
TR_CLOSE/OPEN/END [5]
SERVO_Circuit
U8
AM5888
[1] FCO
[1] TCO
[1] VREF2
[1] SCO
[1] SPDCO
[5] OPEN
[5] CLOCE
[11] M+5V
BC56 104P
BC54 104P
EC23 100uF/16V
VINFC
CFCERR1
CFCERR2
VINTK
BIAS
CTKERR1
CTKERR2
VINSP
VINSL
REV
FWD
VCTL
VCC1
VCC2
PREGND
GND1
GND2
VOFC+
VOFC-
VNFFC
VOTK+
VOTK-
VNFTK
VOSP+
VOSP-
VOSL+
VOSL-
STBY
VOLD-
VOLD+
R40 1R
XOPVIN1 [1]
FOC+ [4]
FOC- [4]
RAD+ [4]
RAD- [4]
SP+ [1,4]
SP- [4]
SL- [4]
SL+ [4]
DMEA [1]
LOAD- [4]
LOAD+ [4]
OUT/IN DISH SENSE Circuit
CON1
DIP13P_1.0MM
GND
HOME_SW
SP+
SP-
SL+
SL-
LOAD-
LOAD+
DISC-SW
LED1
LED2
TRIN_SENSE
TROUT_SENSE
HOME_SW [1]
SP+ [1,4]
SP- [4]
SL- [4]
SL+ [4]
LOAD- [4]
LOAD+ [4]
DISC-SW [4]
LED2 [4]
TRIN_SENSE [4]
TROUT_SENSE [4]


R5F21266
MCU+5V [4,5,6,10,12]
R96 4.7K
R133 330K
C54 100P
E_VOL/KB_DET [5,6]
R90 NC
R92 4K7
R91 1M
C55 102P
C56 102P
R93 1M
KEY2 [5,6]
KEY1 [5,6]
CON13
MOD [5]
MCU_RESET [5]
KEY_RESET [6]
C104 225P
R87 100K
C81 104P
C83 225P
R168 1K
ESDA2
ESDA-09
D19 1N4148
MCU_MUTE [5,9]
D18 1N4148
R39 10K
R86 4K7
R41 10K
Q6 M6
MCU+5V [4,5,6,10,12]
R106 22K
R147 10K
R111 22K
A5V [5,6]
DISC_CLOCE [5]
E_VOL/KB_DET [5,6]
USB/SD_DET [3,5]
TR_CLOSE/OPEN/END [4]
BUZZ_PWM [5]
EQ_IN [9,10]
KEY2 [5,6]
KEY1 [5,6]
R95 4R7
R94 4K7
C51 22P
C50 22P
X1 9.216MHz
C47 104P
10uF/16V
DC1
[5] MOD
[5] MCU_RESET
[5] DISC_OPEN
[8]RDS_DA/TX/B
M_SCL [5,7,9,12]
[8]RDS_CLK/RX/R
[5] IR_IN
[12]POWER_ON
[5] MDSA_STB
[5] MDSA_CLK
FREQUENCY_ON [6]
[12] DVD_POWER
[2,6]DVD_RESET
MODE
VCC/AVCC
W-LED
VSS/AVSS
TRCLOCSE
RESET
TROPEN
CD-SCK
IR
RDS-IN
POWER-ON
CD-POWER
CE-LCD
DI-LCD
CLK-LCD
RXDO
TXDO
SDA
SCL
VERF
SUB-POWER
MUTE
CD-SSI
CD-STB
ACC
RENG
EQ
E-VOL
USB/SD-DET
DISC-DET
K2
K1
U5
R151 10K
R149 10K
R148 10K
R109 NC
R195 1K
R107 10K
R102 10K
R89 10K
C52 225P
LED_R [6]
DISC_OPEN [5]
ISDBT_TXO [5,8]
MCU+5V [4,5,6,10,12]
A5V [5,6]
LED_B [6] [9]
STEERING_DET
MUTE/W_LED [5]
MDSA_DATA [5]
M_SDA [7,9]
M_SCL [5,7,9,12]
SDA/ISDB_RX [8]
R117 1K5 OPEN [4]
R118 1K5 CLOCE [4]
R119 100R IR [6]
R120 33R DSA_STB [1]
R121 33R DSA_DATA [1]
R122 33R DSA_CLK [1]
CA31 475P
R169 0R
R116 NC
D26 1N4148
MCU_MUTE [5,9]
[5,8]ISDBT_TXO
[5] DISC_OPEN R117
[5] DISC_CLOCE R118
[5] IR_IN R119
[5] MDSA_STB R120
[5] MDSA_DATA R121
[5] MDSA_CLK R122
MUTE/W_LED [5]
KB_DET_EJ
A5V [5,6]
R320 15R
BUZZ
BUZZ
Q50 L6
R321 6K8
BUZZ_PWM [5]
MCU_MUTE [5,9]
C48 22uF/16V
R88 47K
R101 47K
C53 225P
+9V [9,12]
R126 47K
Q9 M6
R127 1K
SUB_MUTE [9]
SUB_ON [1]
R128 10K
C78 225P
Q10 L6
MCU+5V [4,5,6,10,12]
R184 47K
Q35 8550
A5V [5,6]
ACC+12V [3,9,12]
R181 22K
Q36 L6
R183 1K
+12V [6,9,12]
R158 47R
CON3
[12] ACC+5V
R198 10K
R219 68K
MCU+5V
Q19 L6
MCU+5V
Q37 8550
R218 27K
R292 470K
C44 NC
R221 4K7
USB/SD_DET [3,5]


T118ES power Circuit
P+5V
[2,3,6,8,11,12]
L31 33UH
C141 220uF/6V3
C122 104P
C217 100P
TFT+5V
[6]
U20
1117-3V3
VIN
ADJ/GND
NOD
VOUT
C214 10uF/10V
C219 104P
FB4 10UH AVDD33 [6]
FB5 10UH VDD33 [6]
VCC [6]
C215 10uF/10V
C218 104P
C204 104P
FB6 10UH VDD18 [6]
U19
1117-1V8
CVBS Input
CVBS_OUT [6,10]
DD2 BAV99
C188 180P
C191 180P
R284 NC
L24 2R7KT
C186 684P
S_Y [6,10]
DD4 BAV99
C194 100P
C189 100P
R283 68R
L22 2R7KT
C192 105P
S_C [6,10]
DD1 BAV99
C187 330P
C193 330P
R282 68R
L13 2R7KT
C190 105P
S-VIDEO Input
L25 0R
C123 10uF/10V
C198 104P
C200 104P
C197 104P
R308 180R
VDD33 [6]
C182 105P
R299 10K
VDD18 [6]
C184 22P
C183 22P
R302 1M
XT4 27MHz
R306 0R
R301 0R
[1,6,8] S_SDA
[1,6,8] S_SCL
R304 1K
RESET [6]
BACK_VIN [6,9]
C46 330P
R272 7.5R
C45 105P
C137 10uF/10V
C196 104P
AVDD33 [6]
C220 10uF/10V
C199 104P
C195 104P
VDD18 [6]
T118FS
T118ES
U16
PWM1
ACR1
ACR0
ACB1
AY0
AY1
SDA__STRAP:I2CA3_
SCL
XTALI
XTALO
RSTB
CPUNIT__STRAP:I2CA4
VFB
PWM_DC
VFBL__+_VFBI_
PWM_LED__+VPWMP/VPWMN_
VD33ADC
VDD33
VDD33DAC
VDD33PWM
VDD18
VDD
AVDD33 [6]
VDD33 [6]
VDD18 [6]
1N5819 D10
VD5A
D11 5V1
C179 104P
C142 10uF/10V
R307 2R2
TFT+5V [6]
AGND
VS33ADC
GND
VSS
VSS
VS33DAC
VS18PLL_VS33PWM
HSO/POL/VCOM
VSO/STH1
DEO/INVO/STH2
CPH1/VACLKO
CPH2/SDO/RL/VADT0/GPO2
CPH3/SDI/UD/VADT1/GPO3
QIH/SD2/VAD12
LP/OEH/VCOM_/SD3/VADT3
GCLK/CKV/SD4/VADT4
GOE/OEV/SD5/VADT5
STV1/SD6/VADT6
STV2/SD7/VADT7
XTCLKO
VCOMAMP
VCOMDC
VBGF
IOB
IOG
IOR
RN4 33R
RN3 33R
VSYNC [6]
DCLK [6]
DIN0 [6]
DIN1 [6]
DIN2 [6]
DIN3 [6]
DIN4 [6]
DIN5 [6]
DIN6 [6]
DIN7 [6]
HSYNC [6]
R305 1K1
KB_DET [1]
KB_DET_EJ [6]
R74 47K
R45 10K
D29 1N4148
R110 22K
MCU+5V [4,5,6,10,12]
KBKB_DET_EJ=0;

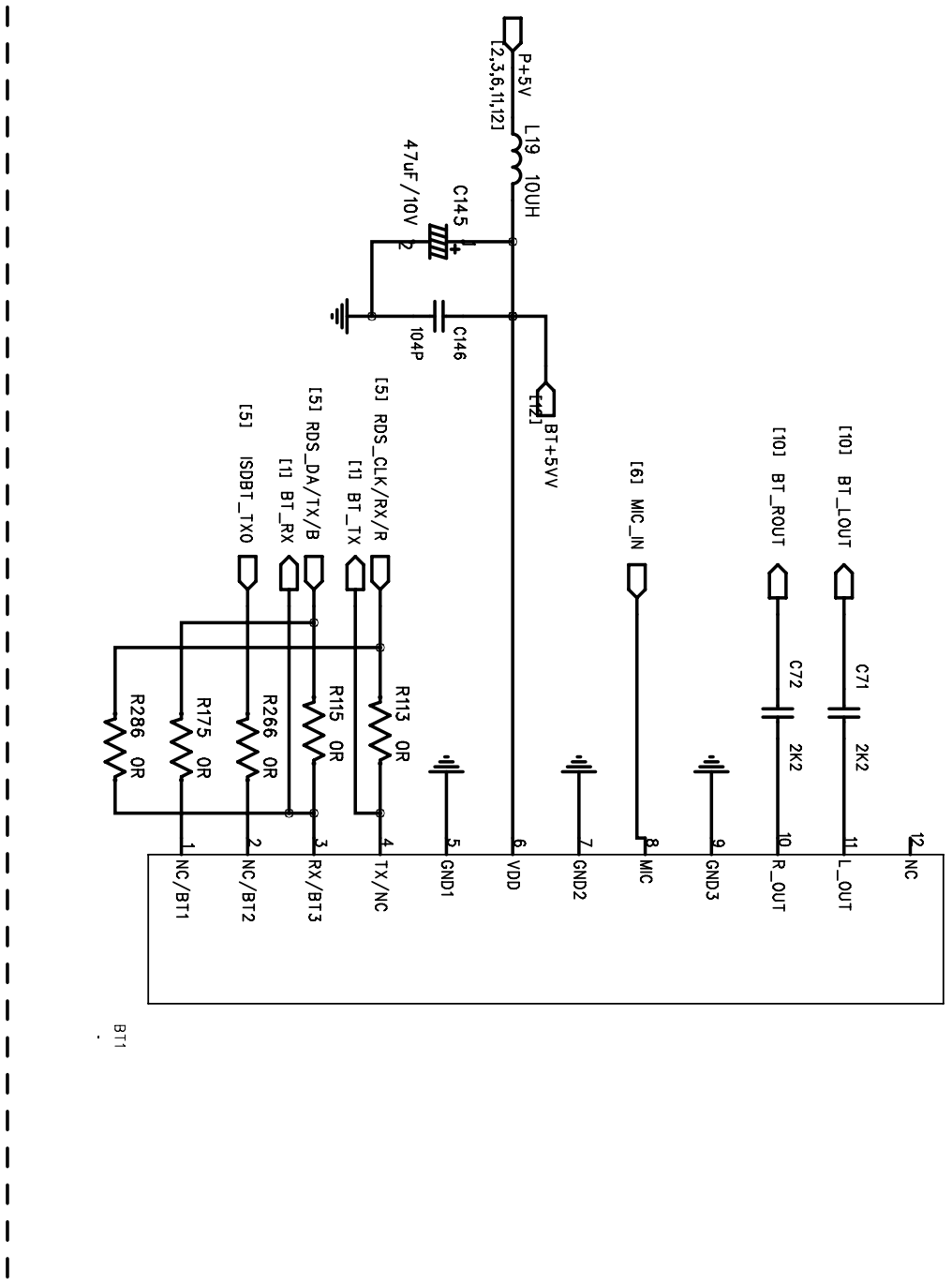
TO KB
KB_DET_EJ [6]
LED_B [5,6]
LED_R [5,6]
MIC_IN [8]
KB+12V [2,6]
AUX_L [9]
AUX_R [9]
KEY_RESET [5]
AUX1_VIN [9,10]
DIN7 [6]
DIN6 [6]
DIN5 [6]
DIN4 [6]
DIN3 [6]
DIN2 [6]
DIN1 [6]
DIN0 [6]
HSYNC [6]
VSYNC [6]
DCLK [6]
S_Y [6,10]
S_C [6,10]
S_SDA [1,6,8]
BACK_VIN [6,9]
CVBS_OUT [6,10]
R600 0R
R301 0R
R300 0R
R285 0R
R274 0R
R273 0R
R271 0R
R269 0R
R268 0R
R267 0R
R210 0R
R222 0R
R226 0R
R309 0R
BT_ON [1]
SMD40P_0.5MM_DN
R602 0R
R601 0R
R208 15K
R207 15K
ESDA-09
ESDA6
ESDA5
R42 4K7
R192 33R
R252 33R
R314 33R
R315 33R
R312 33R
R270 1K
ESDA7
ESDA-09
R265 33R
R313 4K7
CON2
L33 3U3
L34 3U3
+12V
P+5V [2,3,6,8,11,12]
KB+12V2,6]
KB+12V2,6]

RADIO Circuit

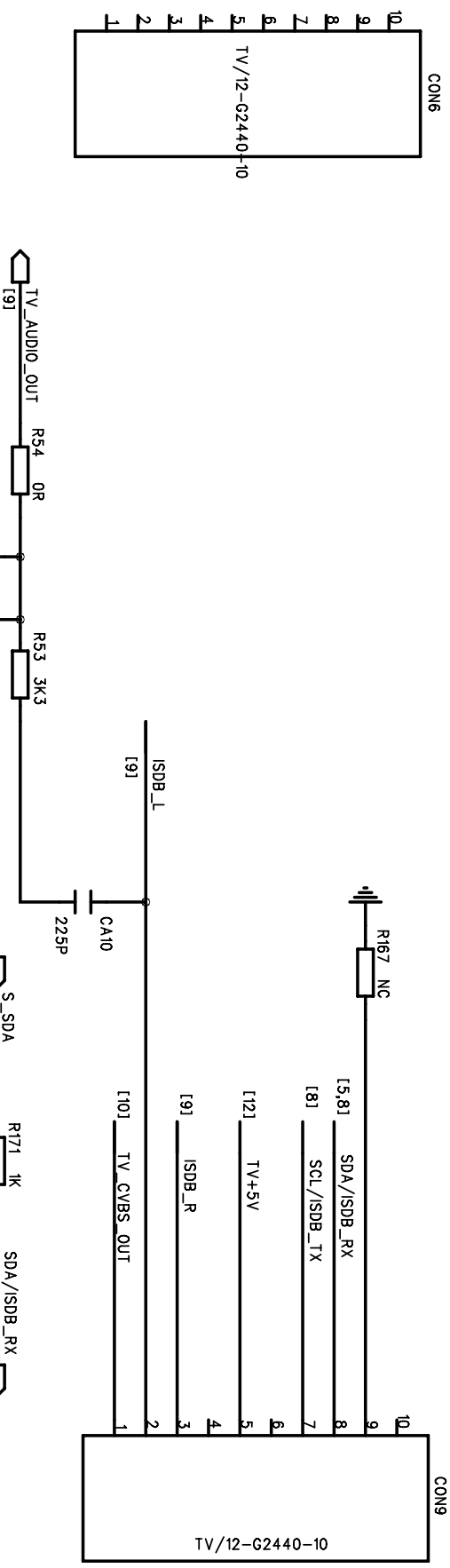


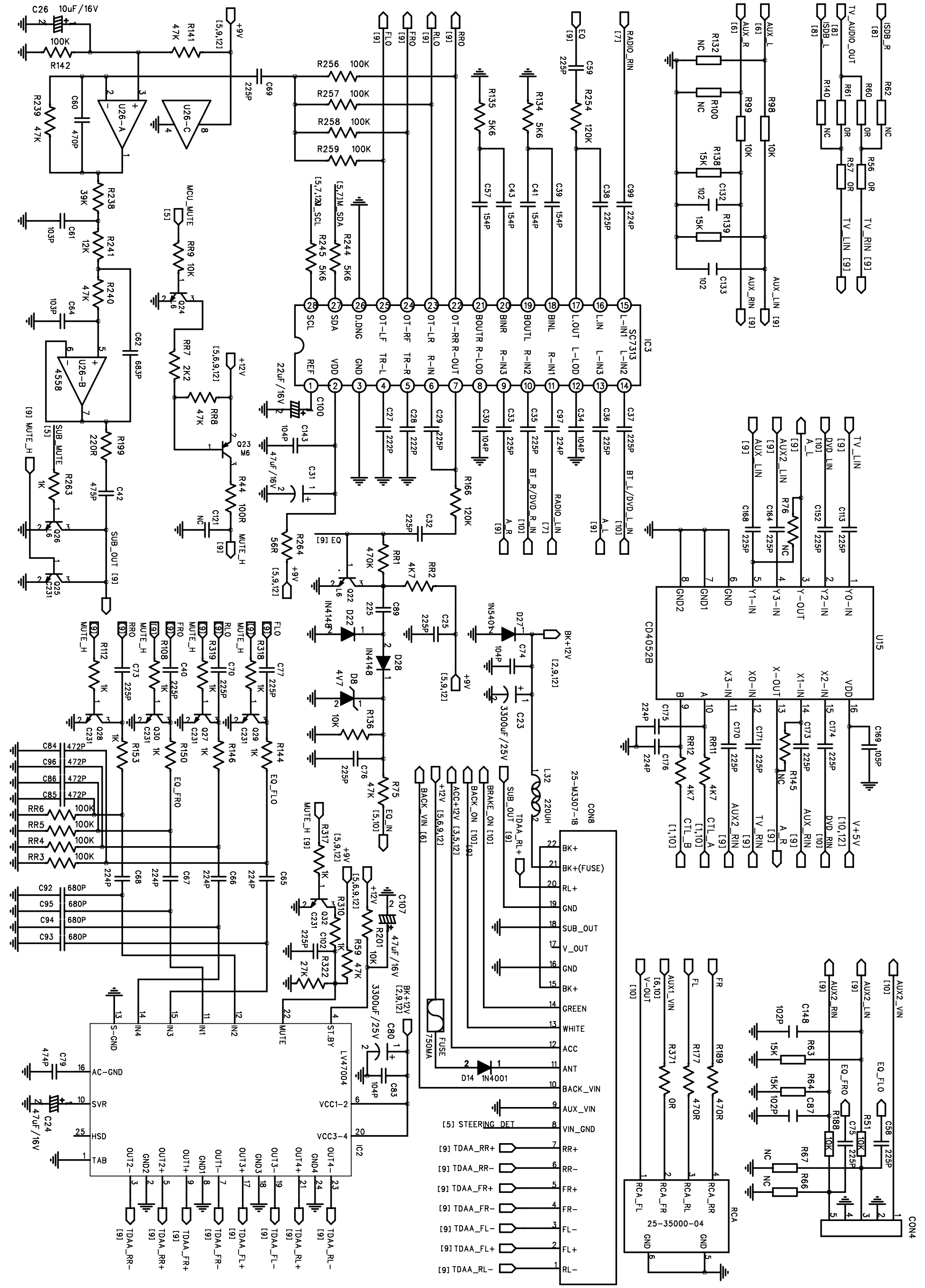
RADIO Circuit

BT Circuit



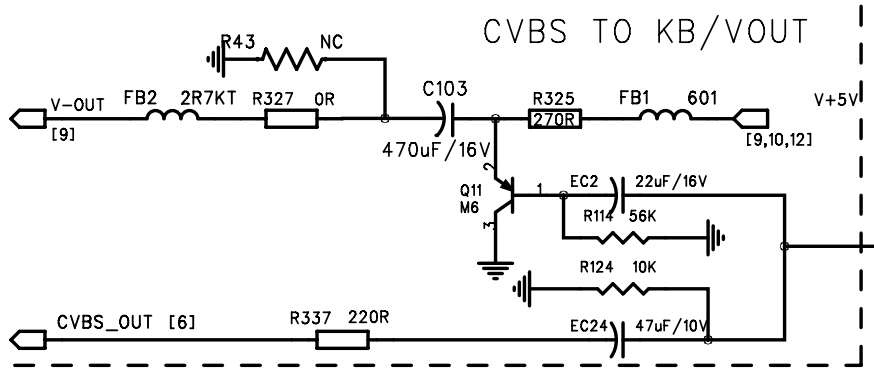
TV Circuit



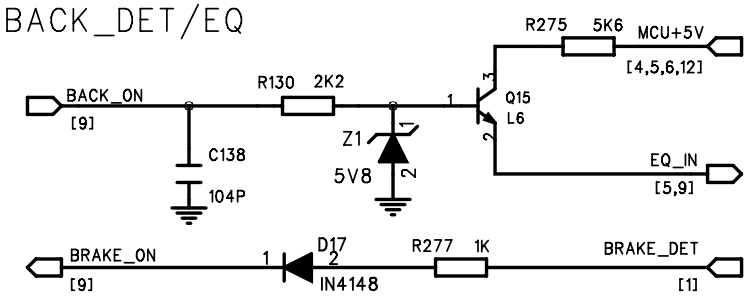

U15
CD4052B
IC3
SC7313
CON8
25-M3307-18
CON4
RCA
25-35000-04
LV47004
U26-A
U26-B
U26-C
4558
IC2

PREMIER
WWW.PREMIERMUNDO.COM

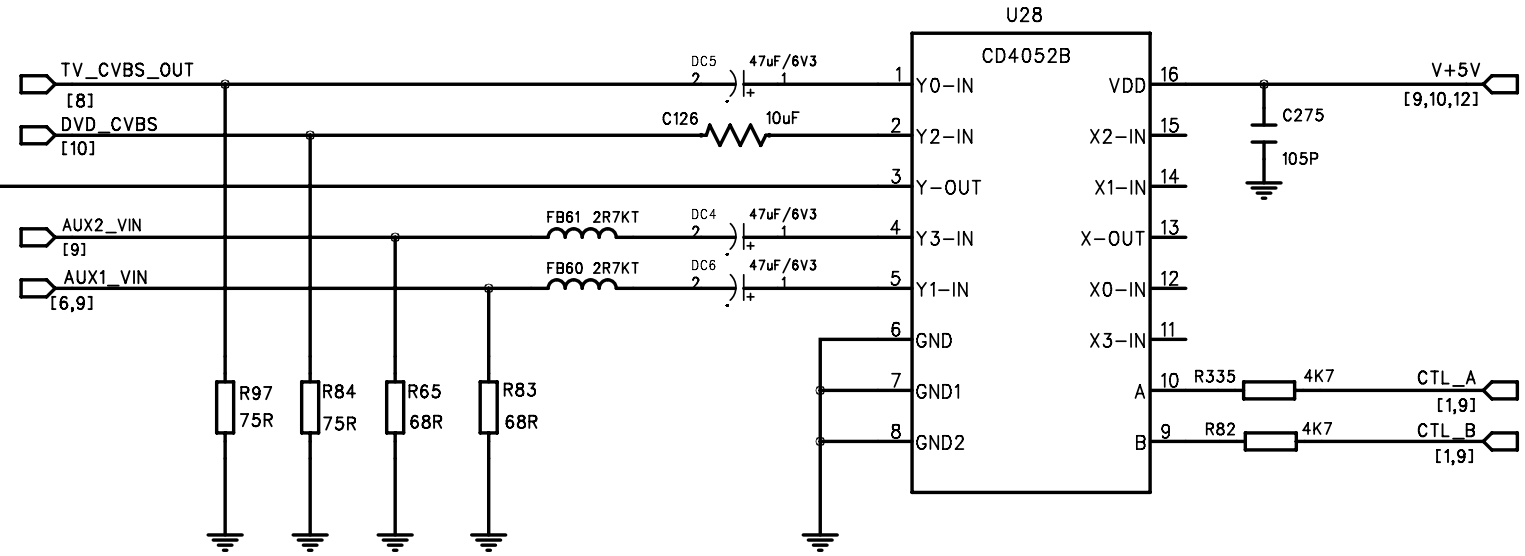
CVBS TO KB/VOUT



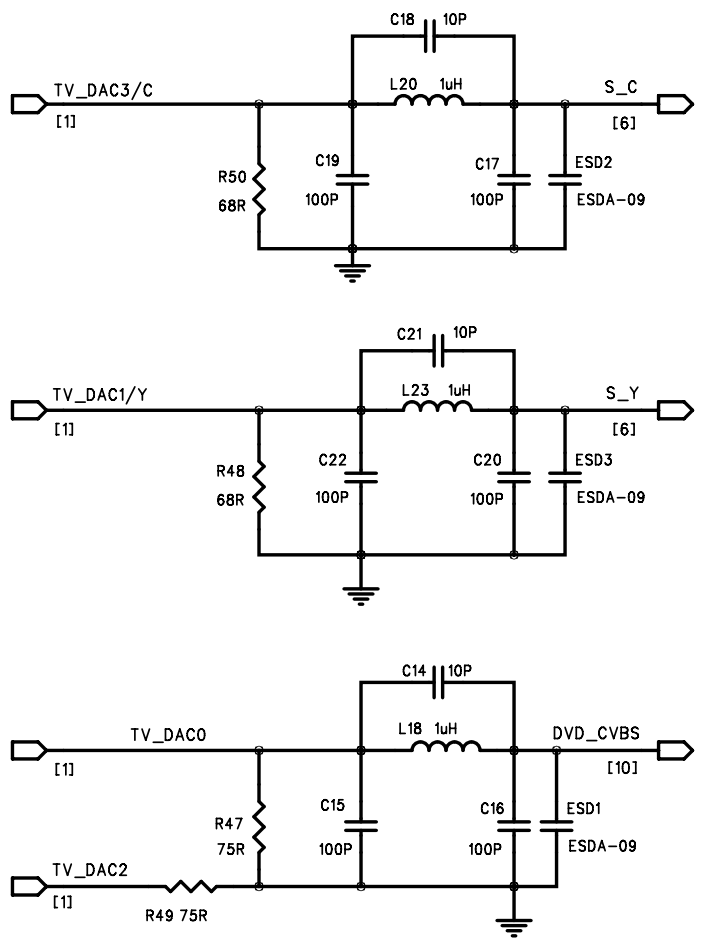
BACK_DET/EQ



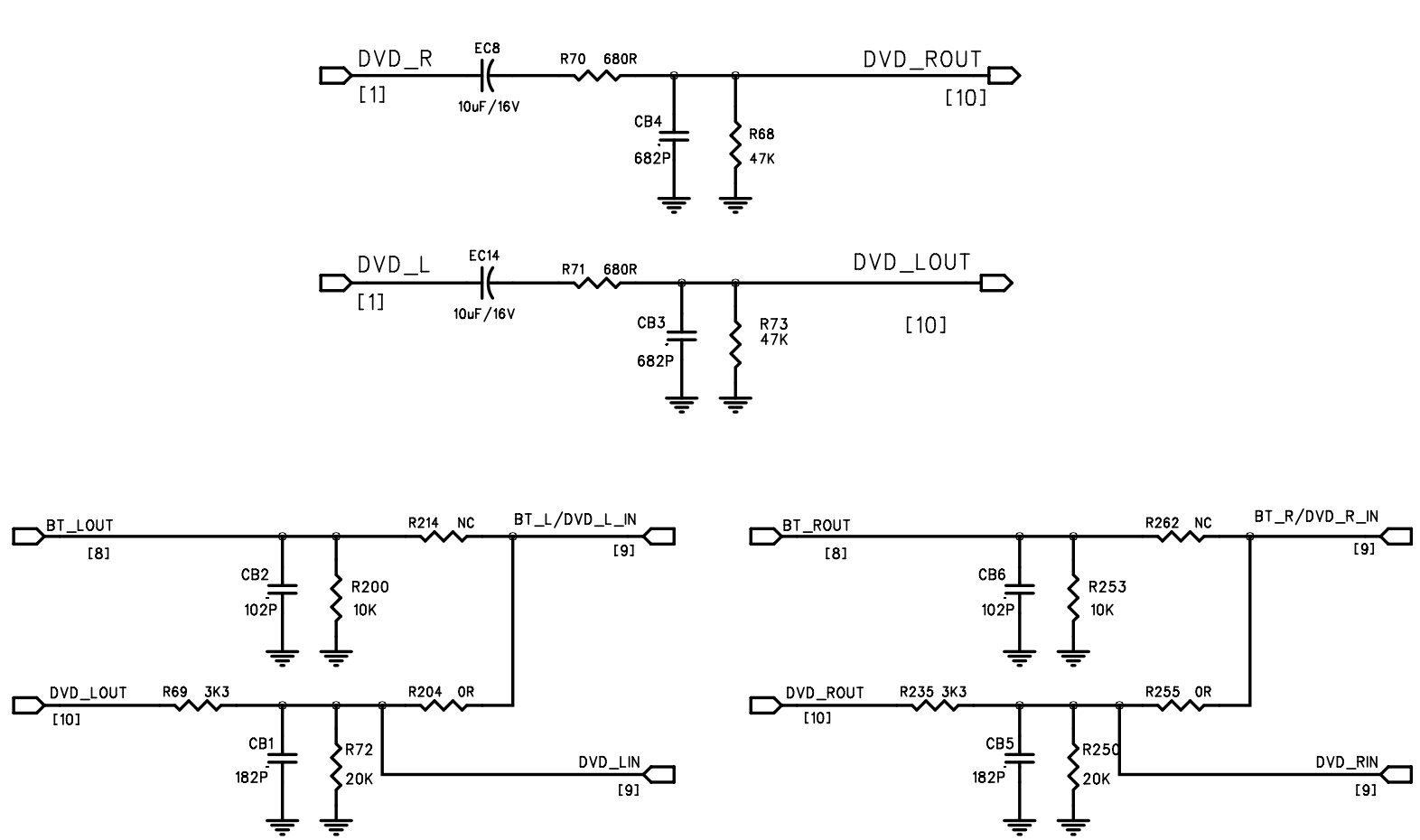
VIDEO_Circuit

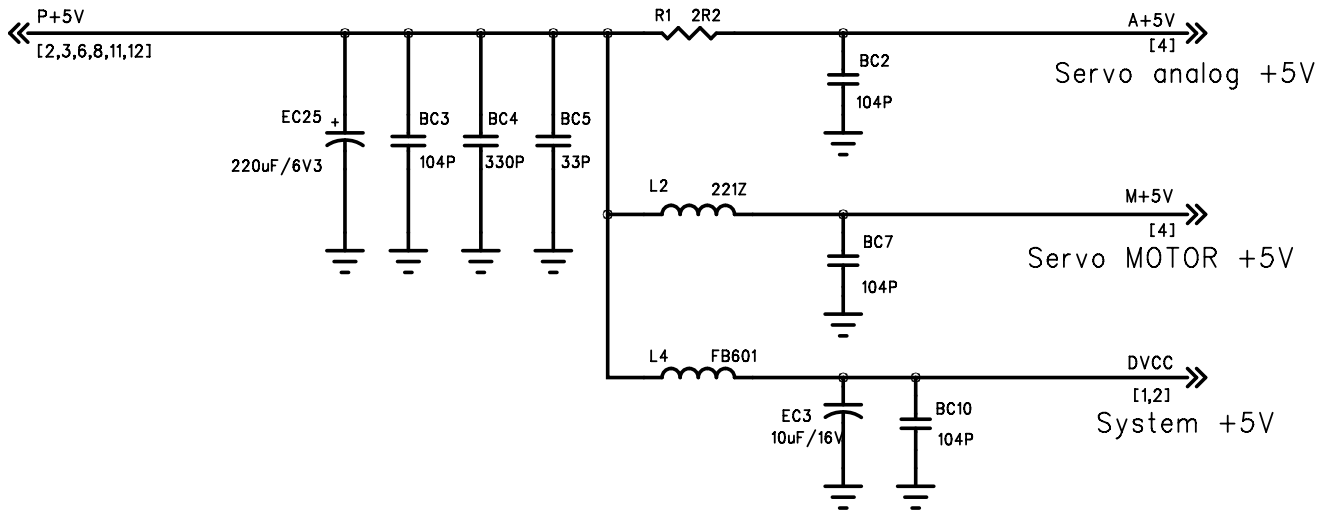


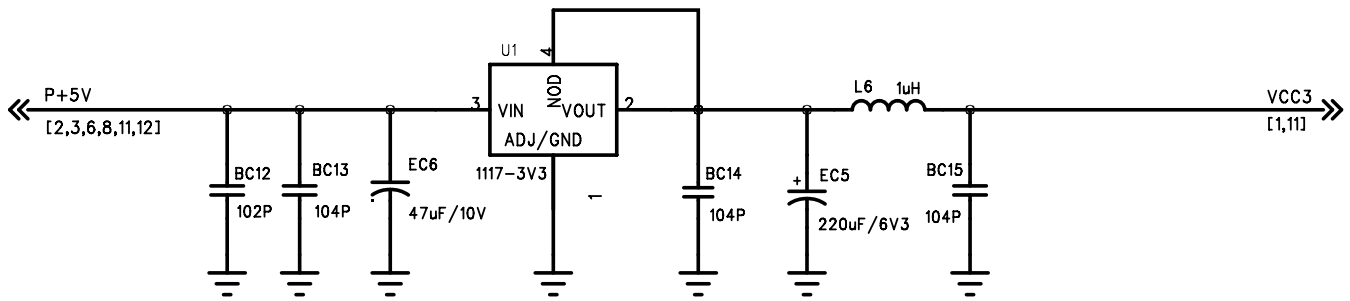
CVBS CVIDEO Circuit

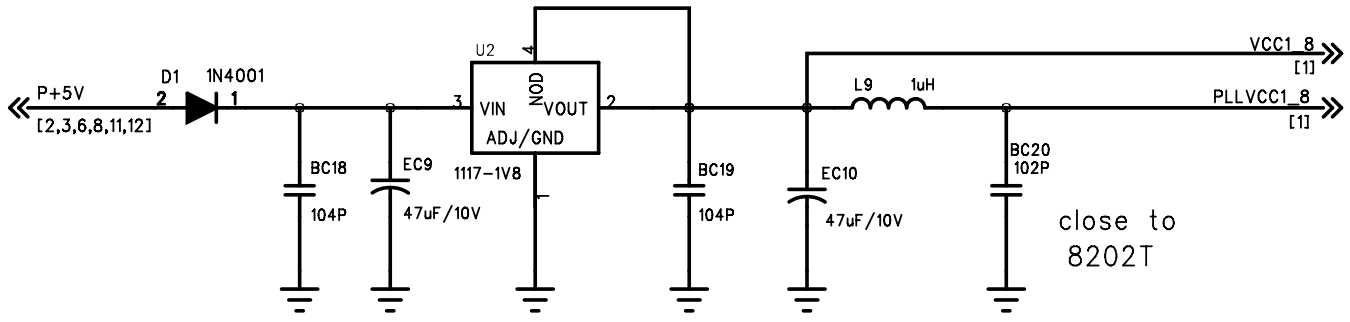


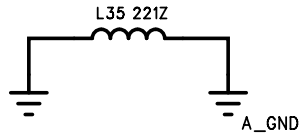
DVD R/L Circuit

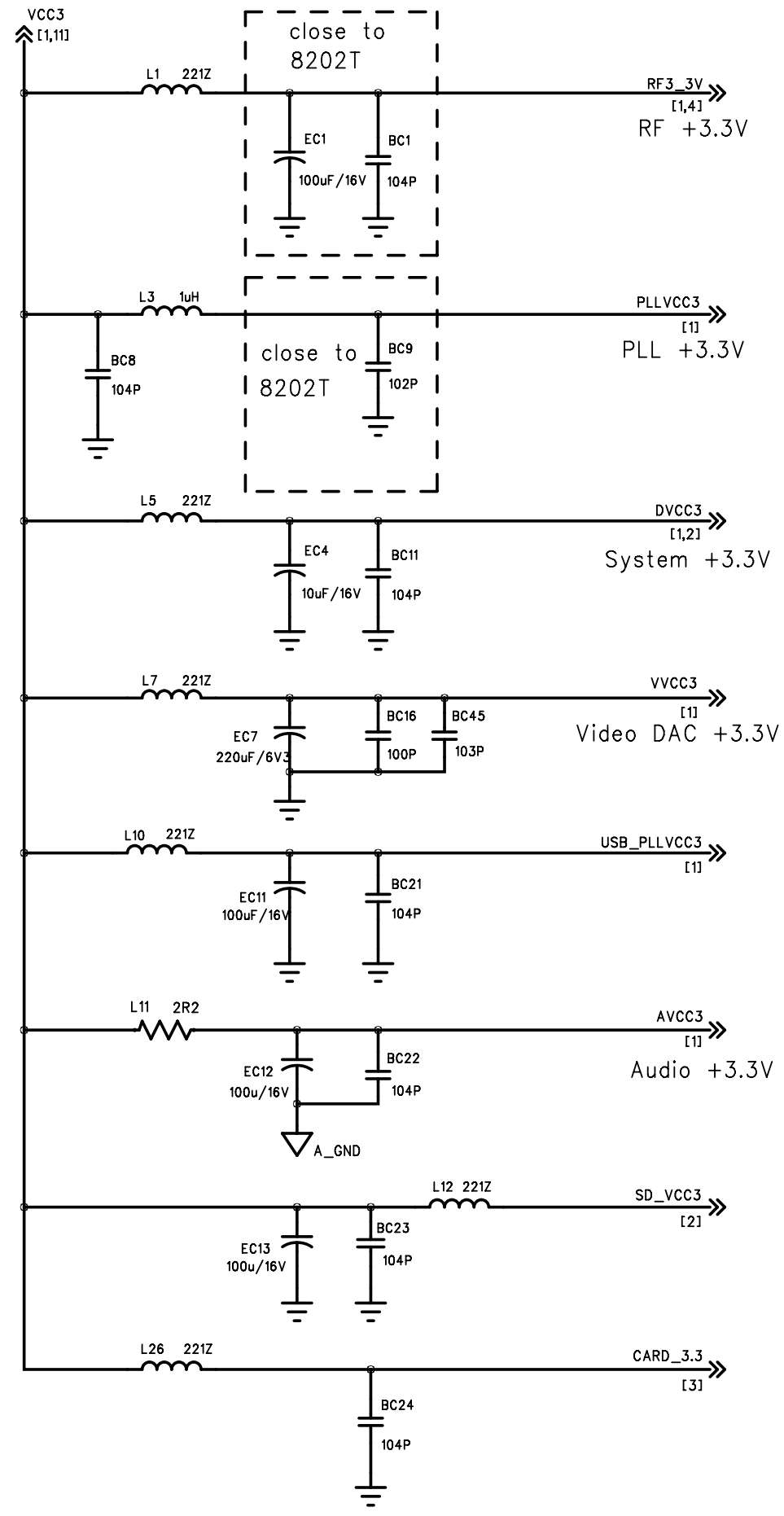






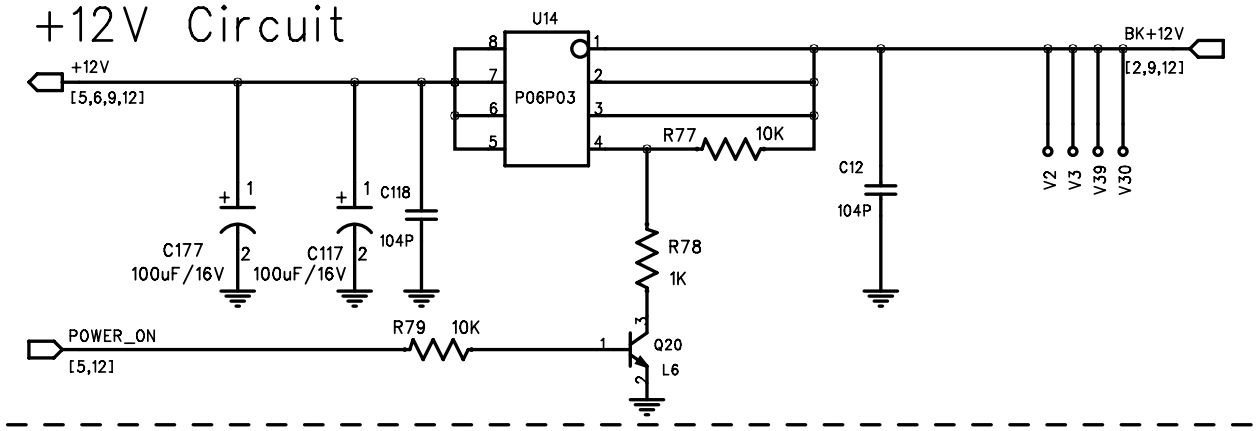




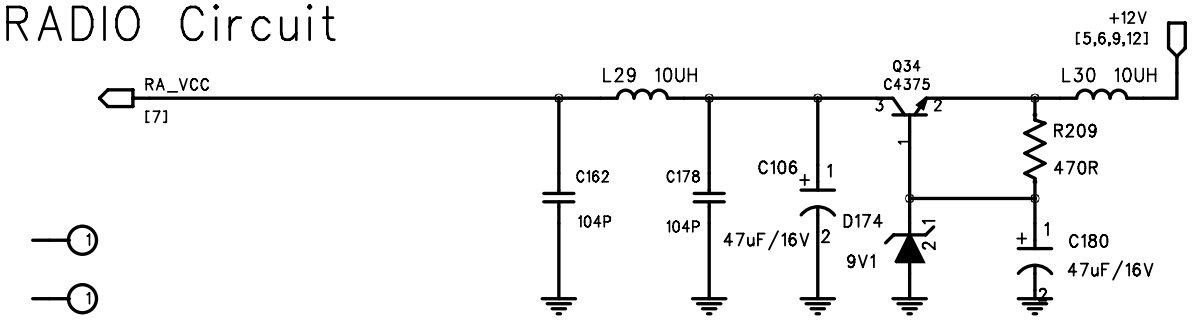


WWW.PREMIERMUNDO.COM

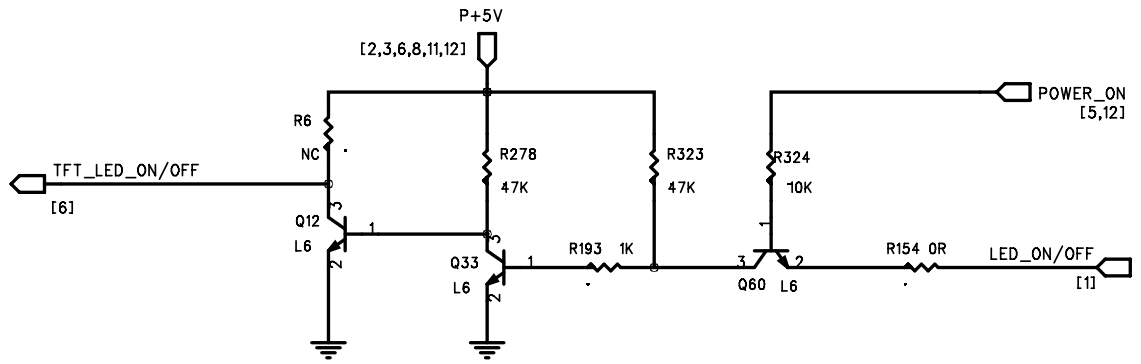
+12V Circuit



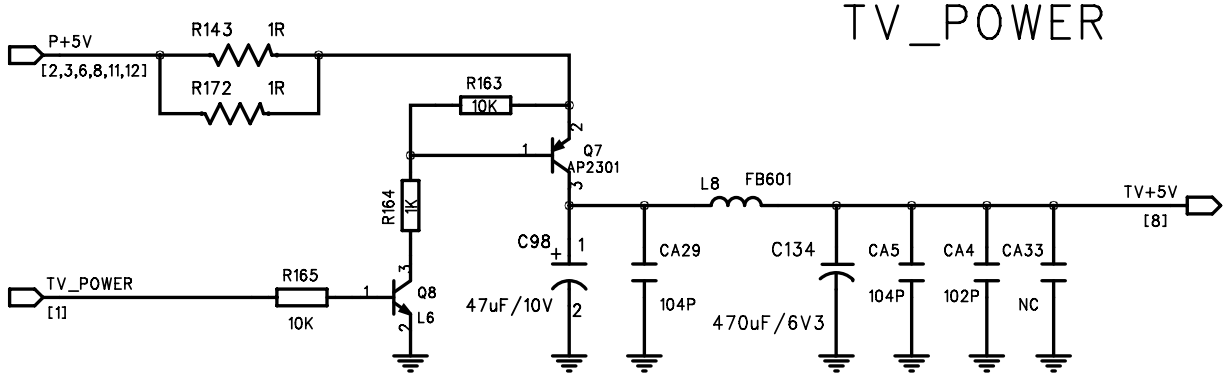
RADIO Circuit

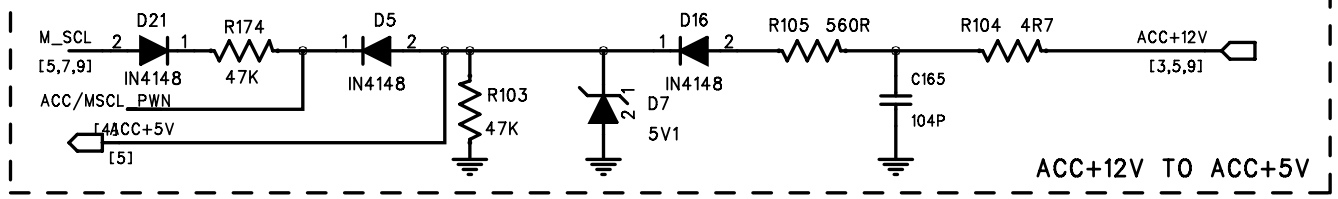


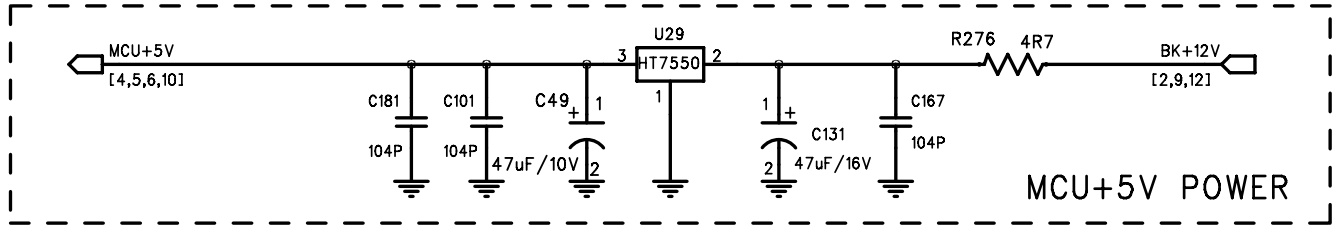
LED ON/OFF Circuit

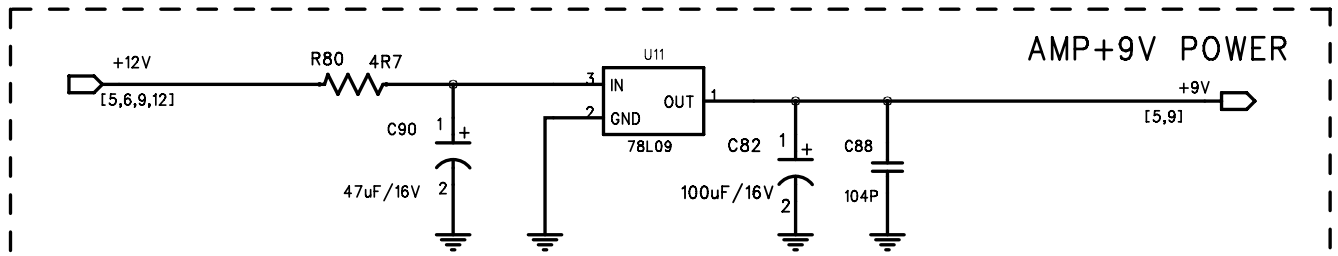


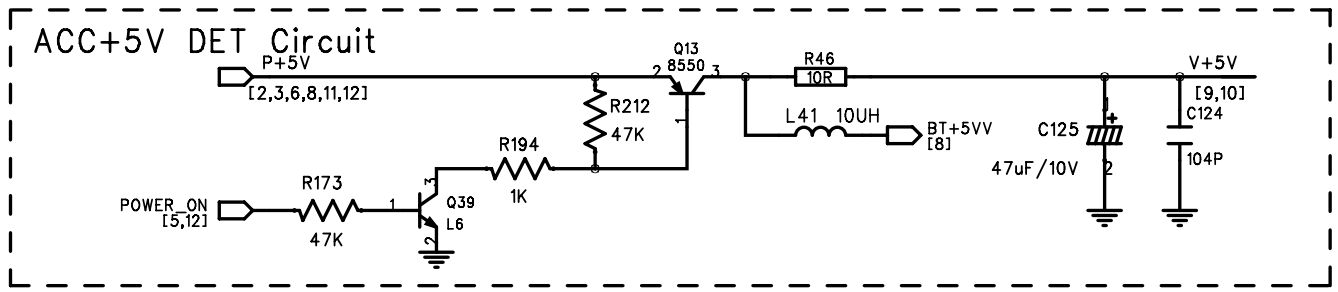
TV_POWER



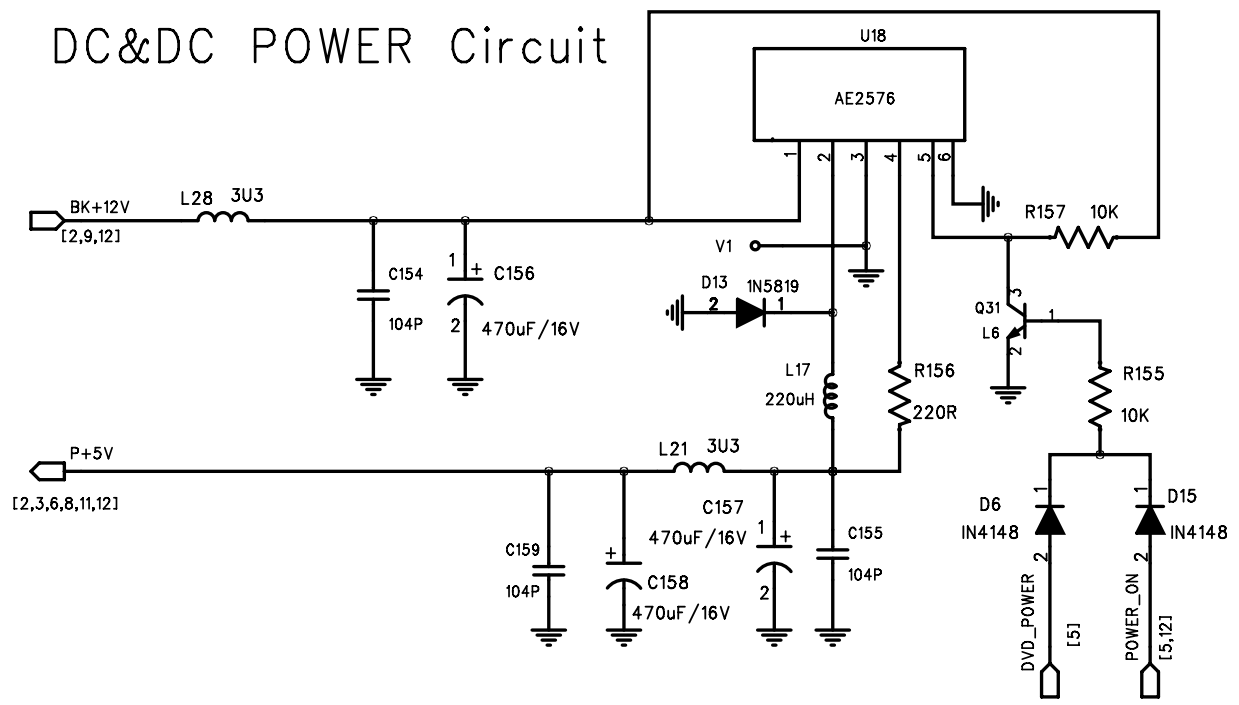




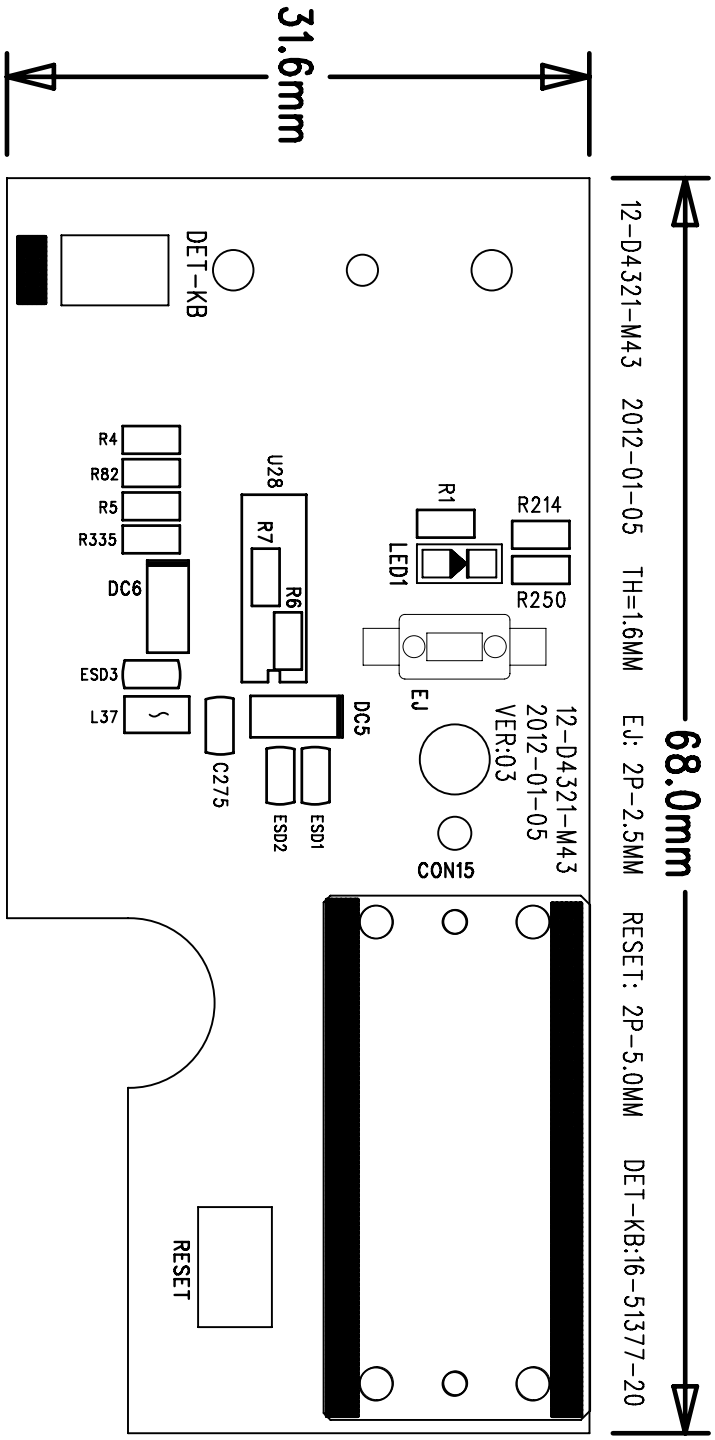


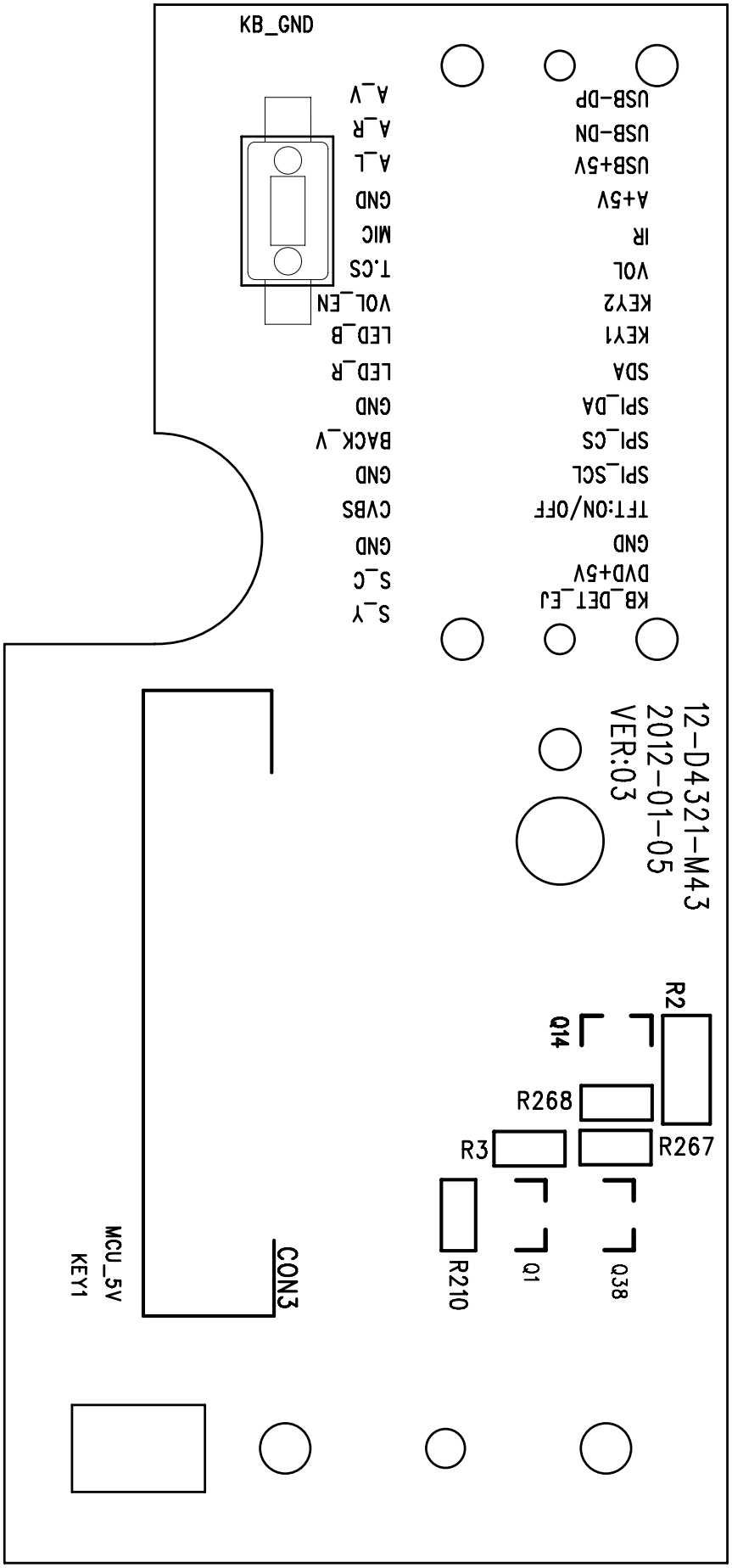


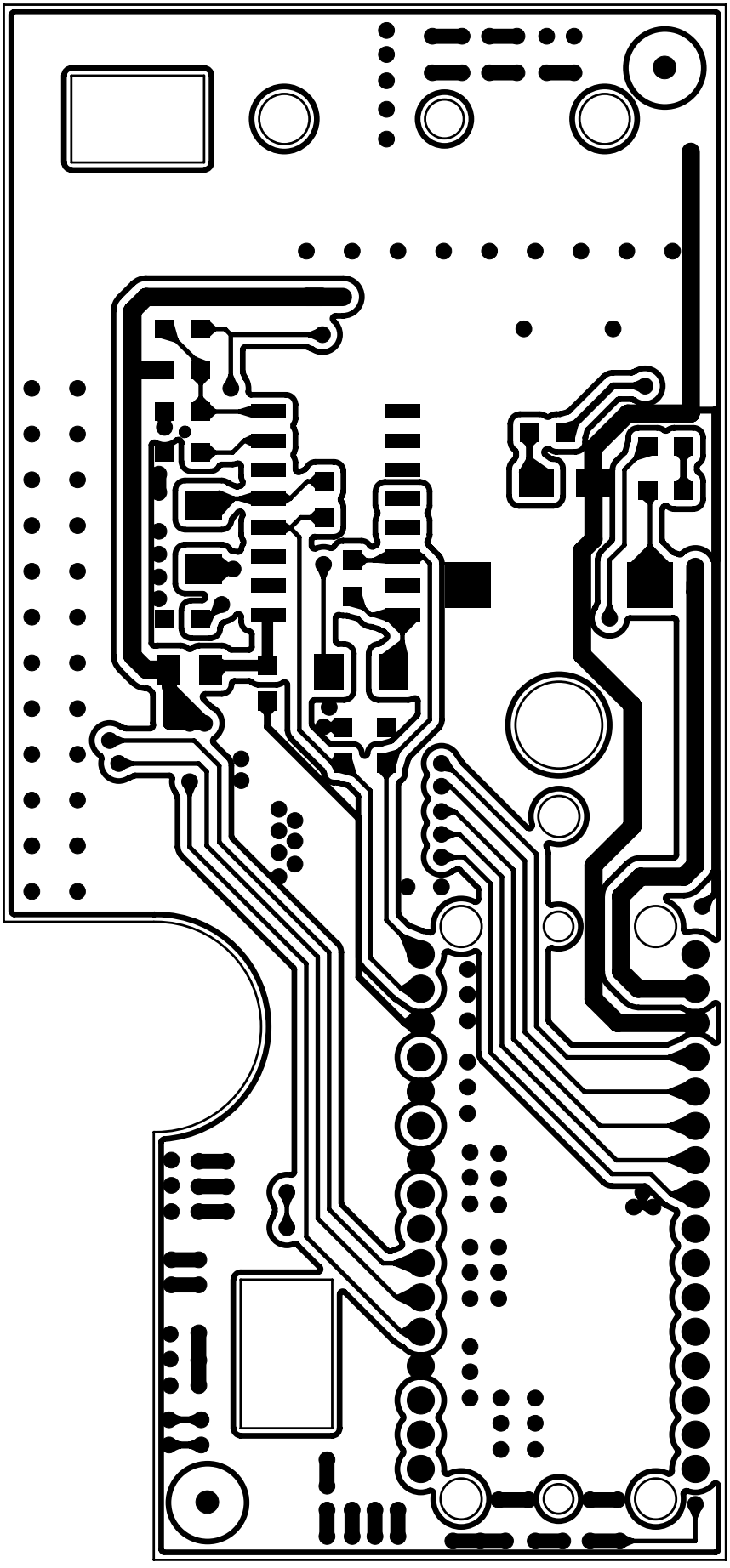
DC&DC POWER Circuit

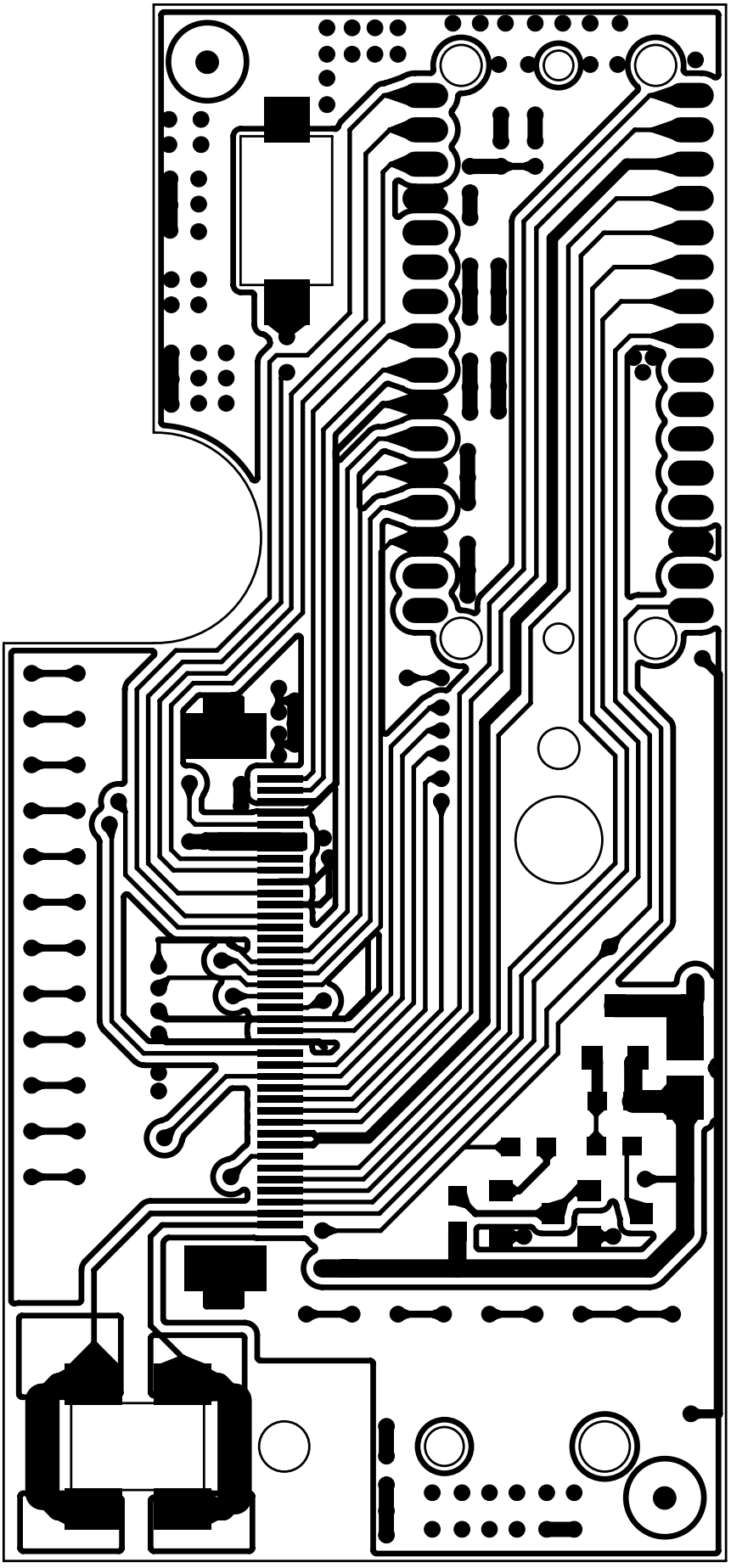


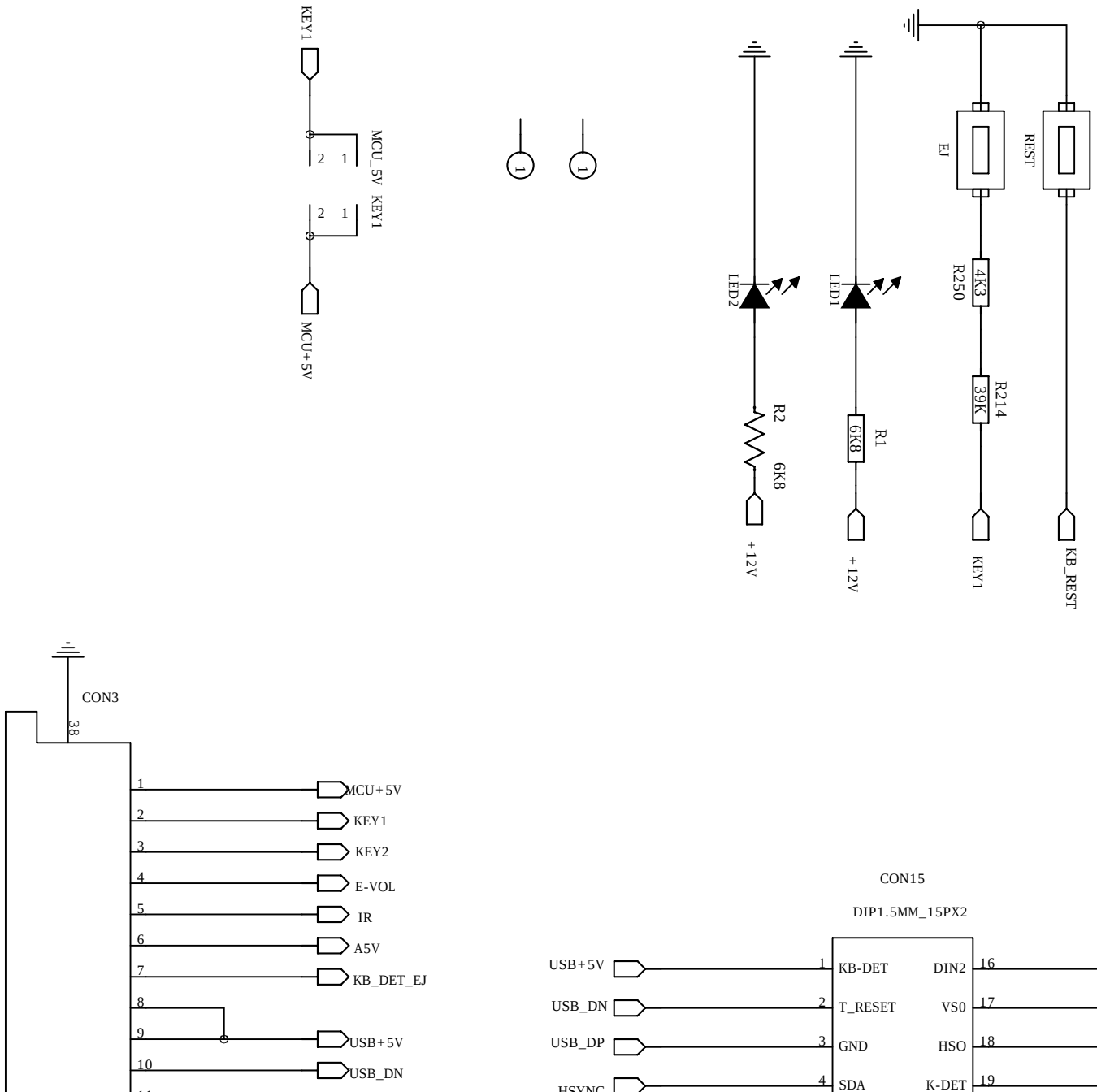
WWW.PREMIERMUNDO.COM


31.6mm
68.0mm
12-D4321-M43 2012-01-05 TH=1.6MM EJ: 2P-2.5MM RESET: 2P-5.0MM DET-KB:16-51377-20
DET-KB
R4
R82
R5
R335
DC6
ESD3
L37
U28
R7
R6
C275
ESD2
ESD1
DC5
R1
LED1
R214
R250
EJ
12-D4321-M43
2012-01-05
VER:03
CON15
RESET


KB_GND
A_V
A_R
A_L
GND
MIC
T.CS
VOL_EN
LED_B
LED_R
GND
BACK_V
GND
CVBS
GND
S_C
S_Y
USB-DP
USB-DN
USB+5V
A+5V
IR
VOL
KEY2
KEY1
SDA
SPI_DA
SPI_CS
SPI_SCL
TFT:ON/OFF
GND
DVD+5V
KB_DET_EJ
12-D4321-M43
2012-01-05
VER:03
R2
Q14
R268
R3
R267
R210
Q1
Q38
CON3
MCU_5V
KEY1






REST
EJ
R250
4K3
R214
39K
KEY1
KB_REST
LED1
R1
6K8
+12V
LED2
R2
6K8
+12V
1
1
KEY1
MCU_5V
KEY1
2
1
2
1
MCU+5V
CON3
38
36P_0.5MM_DN
37
1 MCU+5V
2 KEY1
3 KEY2
4 E-VOL
5 IR
6 A5V
7 KB_DET_EJ
8
9 USB+5V
10 USB_DN
11 USB_DP
12 TFT_LED_ON/OFF
13 SPI_DA
14 SPI_CS
15 S_SCL
16 RESET
17
18 HSYNC
19 VSYNC
20 DCLK
21 DIN0
22 DIN1
23 DIN2
24 DIN3
25 DIN4
26 DIN5
27 DIN6
28 DIN7
29
30 KB_REST
31
32 AUX_R
33 AUX_L
34 +12V
35
36 MIC_IN
CON15
DIP1.5MM_15PX2
USB+5V 1 KB-DET
USB_DN 2 T_RESET
USB_DP 3 GND
HSYNC 4 SDA
VSYNC 5 SCL
DCLK 6 SCEN
DIN0 7 DIN7
DIN1 8 DIN6
DIN2 9 DIN5
DIN3 10 DIN4
DIN4 11 DIN3
DIN5 12 DIN1
DIN6 13 DIN0
DIN7 14 CLK
MIC_IN 15 GND
DIN2 16 KEY1
VS0 17 KEY2
HSO 18 RESET
K-DET 19 S_SCL
GND 20 SPI_CS
+12V 21 SPI_DA
GND 22 TFT_LED_ON/OFF
IR 23 KB_DET_EJ
LED.ON/OFF 24 A5V
VOL 25 IR
MCU5V 26 E-VOL
MIC 27
GND 28 +12V
K1 29 AUX_R
K2 30 AUX_L